# VIATION MAY 10, 1954 A McGRAW-HILL PUBLICATION WEEK 50 CENTS



CONVAIR ... first choice all over the world! Thirty airlines have chosen Convair fleets for your air travel comfort and speed. Ask your favorite airline or travel agent to make your next flight a Convair...world's most popular passenger plane!



#### How the Holley Turbine Control helps jet pilots concentrate on FIGHTING, not flying

North every fort of altitude2-a yard or lost, activ) every minest change in activa/phose conditions altan the amount of tall flow speeds by folloy a jet engine. Loss ally hundreds of mathematical problems must be solved every minest a jet is in the skill it would be empounded for any print to public all those problems and all those talls the submission of the follows. In the Molling loss of the skill is a state of the state of the tall of the skill is a state of the skill of the tall of the skill is a state of the skill of ski

warral. But producing Biology Turbina Charastee requires expected differ too Wook my to believe of at Biologia photo or makes 25 millionation of an mick, the Moltoy manufacturing devision them only Lathness controls for thosematic of fieldyll pid entratis. Holders highly trianned necessity, engineering Holders highly trianned necessity, engineering





### What's all this talk about PNEUMATICS ?

Men like George Meddarst were talking – and doing concetting about presumation years ago. As early as 1000, Mr. Meddarst tood out pointer in Exclused for a presument costmodel: Dat today, the impletes falser for presumation in the field of statemen. The early to as asky, when you book of statemen, Tre early to as asky, when you book

Pacaraste systems are light and soft—and sizes the data the veria, yea're sore of an unlarities applying of system breakfoor from neither leads of system breakfoor from neither leads. And percentally system operate efficiently over an extremely wide insuperature range, ... will give you all the power you need, from a feather touch to a pite-driver much.

The heart of a pneumatic system is the compresses, and Kidds has a 1990 per compresser the size of a table realis—the Spitzer, most efficient on the market today. Kidds also designs and meles presmatic components such as pressure reduces, so fuse, 2 and 3-any salmod control outses, dehamadiyang equipment. Today Kidde out engineer and furnish a complete pressurate

We here at Ridde are constantly on the watch for now applications of this exciting force. We blick if fortunate that we were among the first to explare this functioning field. Perhaps you too, so re-serengester this power of tomorous. If you have now problems in neural

section, purity par.

edda (K

Matter Kidde & Company, I



#### ELIMINATE HEADACHES! ...in purchasing

VINYL SLEEVING

buring years

marship Absolute uniform ity Rund quality control Persons and understanding service. That's why Recenfle in the brevest correlate of wired ter Write for sareries and





CO. See Set.

### Aviation Week

Nov York 16-330 W 43ed St., Pleas LDrapo v 4 5000 (Medit 60 4 3000) If this season of the same ported

Sabet W. Marin, B. Novi Editor Tires 1 Sulter Social Assessments Ingierring William | Country West Goet

Technical Serie Long. Med Cont Assetsor Incor Stone C. J. Claiman Fasturent Meletrower Honey Lety . New Deal Enterno Maria Compres Contre C Contry News Dade Phile Elex Avenue G. J. McVinter Washearton News Deal. Charle C. Warr. Million Levence J. Elsch. Art Editor Tempet Victors Gree's ..... Edged Milesa

Chines 11 SO No Vildage Are Les Augries 17 Clerebral 25 - 1510 Herry Welg. San Francisco 4... 556 Perstood Edg. Walkington 6 1209 National Prov. Edu. Editor . . ... Issuel K. Van Denbran, Iv. Marsle London Edward W. S. Hell Meson Div. Para John O Copper's Non-Peris Soon Centd W Schooler Yeller

Aridia Web a sevel by Pass Associates, Inc. a substant of Associated Pro-Agreed and Marketing May Datasia, June Grain and May Winters 

Sales Resemblated J. C. Arthory, New York H. P. Johnson, Clevinski, D. T. Barr no said 1 S. Custallo, Cheogo and St. Leeby E. F. Monahed, Sr. Boston, Inno-Col. Dille; William D. Lewer, Jr., Adanta, R. E. Doland, Son Francisco, C. F. Vicilizacili and Goolee Irees, Lee Aspeks, W. S. Timor, Philodobia; C. A. Kerniell,

AVAITS NOTE - May 10, 1951 - Vol. 60, No. 19 Monter Att and ARC eur name in Males, Mil. Printers Greene James T. Section 2015 States Printers Politicals Company of the Compan 8 days. Use Problem and Definition Statistics of the Conference of the Conferenc Control of the Contro 

AVIATION WEEK May 10, 1954

## FLYING THE "DEPERDUSSIN"

One of Cessna's Early Airplanes.



expellent of existing finals for military, commercial and private our To a Addition to a teamwardown connector for productor 115/145 and a designs in turbo-props and jets. Always depend on Phillips



From at year Alegart Dealers Used along with a handy Phillips 66 Credit Cord. Six direct fore of Phillips Ad Airport Deeless will be helpful to pilots



AVIATION PRODUCTS

## The Foirchild C-119 Flying Boxcon -standard troop and corps transportmes CPC Pracision Enclasers



A typical selection of SPS factorers for complete information, write Scienciata Passasa State Co., Jerkinbown 3, Fo.



#### NEWS DIGEST

#### Domestic

Center to New York First stee will Argue seles et U.S. Air Poets bases

led work your restrated by new speak. concern were able to obtain code by

Walkout of 450 machinists convert Y. just week after the IAM local membership meeted a ware service

tion to Control that would improve costrol of the Underscotters of Con-

Military Air Transport Service will take over McCone AFB, N. J., from

miles in creat with the National PRINTING WIRE NAME OF THE

Vertical-triangly transport showing



Readly detroposted from as order PSM I note that for the high second I find, the first renduction Martin PSM-2 Martin mat salt flying boat colound by Novy colo also define from the PSM 2 or its lower how obser which cats down poers height

National Bank of Wichita to provide Corp's AC South Plan Division, ded francing for resemental and espect. Apr 22 in Chicago, Financial North Americas Asiation, Lot As person but your Sales and concern totaled \$298,160,596 Rockley Mar

Pell Aircraft Corp., Buffelo, N. Y., Praccid Helicopter Corp's \$3,875.- had a not tremus of \$1,079,069 for the fast overter of 1954, 96 % higher than the first floor months of 1955. Sales Continental Air Lines had a net so-

> American Arthurs has derived a resider manufactor divisional of 1.7% contri

Frieddil Engine & Alphan Corp., Elegentowa, Md., will pay 50-east divihelden of second May 12 International Canadian arieties officials have de-

ned a U.K. sequent to extend the ior robin for Ectab Oveney Arrent

turned of as \$5 milito Viber Hiller Helicopten has reduced the from \$56,000 to \$33,000, will make mercal sensite that were required by 30 51,106,787,872.

has been purshmed by the Close No-tuoul Book of New York from RFC, Falskinky Navonal Book and the Address to a statement by Amaron

Co. she of Philadelphia porticipated Floer Alteraft Cora., Lock Haven, Legislation exhibiting to Assatust Secretary of Defense for Continental

The merent u product before the House Asserd Services Committee, Rost Adm. Herbert V. Wiley (USN Ret), delphie pinner who comand the cell officer to survive the couth of the USS Alone, died Age 28 st

Marries W. Gotthelf, 63, public re-Gly Rock of New York and the Fourth Interest director for General Motors Corp. of Toronta's Motors Assout





ANSATRON WHEE ANY 10, 1951

The Aviation Week May 10 1950





New Shapes Aloft Here and Abroad





ARMSTRAM WHITWARTH Mores N. F. H. Innique registing to the for finiture a stoner compy than entire N. F. 13, since analysis of finite and finitely as stoney of property "bellet." Fine is 40 is 13 m. long. It has aske to note, four consens or weight.





#### 24 Houris...1 Hostage

bound for the old world after a glimper of the new-The sheek was still in Washington, strending a debonatic disner. He would large temprorytopicle, he was reading his heres home. For not unresoled A street perhapsed officer shopherded them should, then marked acktoly to the Armyck representative to present him into out facther incident, thanks to Armyck's high

It was a recent service finite for the Armer's was. He had just senerously the radius exchant of the shell-'s place and was now makent the Bobb for it in Soud! Applia.

catomatic in his holitor eignificantly. As the place automatic on the noticer organization. As the pieces well be the first to die." His tone was matter of due. yet firm. The Agreem's man professed band, but said suction. What could be say?

is the safe were to did assessment quality. Airwads will globb bundle your coordeal and apply problems. Ask about our personalized serv-

Over inside the plant, the stard borroad the ion, the Agrees's exchange, and dealer programs. Sheriketen for



Wither M. Scherce, Jr., her been up-second one mendent and rules suppose of D. P. Bends her been shoted vice year deat lead of Western Ar Lance First Schedies is vice perident and gen end massers of Wilsons Manchetteine d sile. G. W. Flowing has because wax prendent Head & Suids, resident of Classic

Toti Works of Chitago, has been appointed a director of Coated Auditor.

WHO'S WHERE

In the Front Office

Author is general manager
David D Coffee, manager of Raythous
Manufacturing Cof. Manie and Radar
Delices at Solling, Man, has been ap-Website H. Wilson his hore moved up by Stanking Electronics Core, Little North Edward J. Giblin has become reaction Secretary of En Coll-O Gog. Dataset. number of Dectors for Their Menn Cother has coved Field D. MeHoels Advertising Agency, Los Angeles, as all executive the areation and affind accounts tioner eaction for Beech August Cop., to new pathogas products disector for Minney Switch Despets, Petryot, III
Stanual M. Father has been previously

#### Honors and Elections

INDUSTRY OBSERVER USAF is studing the possibility of archancing high-district melets to carry 40 in prelease to 250,000 ft., according to Reg. Gov. Floyd

P. Strody, S.S. selliesbassics weeker helicater (Asiston Week Miss. ). is 11) has reached a seried of 144 mask, in level flashe during order flight testing. Designation of the \$-52-5, powered by Turbourers Advanta trabapit, has been chosened to \$.50

► Western Electric Co. has shapped its East £ 5 order bombing and energyton system to the Douglay Armely Long Stack Dayson for metallation in the B-663 two-et USAF hatt homber. This morks the first time Douglie. par of its around in fac with the USAF measure system fundament

► Lookbood show to complete the short of its TAX todays accountly line from Van Nave to Falandale. Calif. by mid-May (Asinther Week Aur. 26, p. 21). \*Assertes Aidies recently finhatested a Davelor DCT on the tonocontinuental nunstato route between New York and Los Angeles series an

of the DOT ► Placeki H-21 helicoptes no Syng on a test best following incorporation of 27 confidentians arrived by USAF when the thins were exceeded in Pebenan. Time absorbed by paper work is responsible for much of the the recen light to menufacture modification kits. The first opposeded 15-21

eta conserved and art everyon my 0.125 havels of pd for euroy 100 havels of set tool burned, it USAF study shows P. Competition among believeter manufactures is brigaine and hearing to the Air Ferce and Navy. At least one commany has cut the union on Subset. color for a large contra \$650. Personal Military beauty and department arrange the rate treat come down. Major cost headachet majotenesses

► Propertyles costs for major sauthing tools, temporarily in excess of segumments on mercury short \$300 per tool New Borney of Accountry P.Avenue cost for New strents engine overhook, tacheling piston and jet energy, is \$99,114. New will werhard 9,153 receives in feet 1954 and has

Others were transferred to schools for instructional manufacture P.Air Force in seeking about \$36.6 scillion for foral 1995 to her 29 fight Profects, Inc., will record an humanon degree on Doctor of Science on Military simpleton. Con at a B-82 simpleton in 5951 000. \$100 simpleton costs. \* Approximately saves years is associated for the development and initial res-Person S. When, common marrow for duction of a fashion plane, secretary to Mrs. Gen. O. S. Picher, USAY

#### -Washington Roundup

Aviation Advisor Mrs. Circ. Widge & Process (Bet ). Denny Asserted

### Pacific Spetlight

The Administration is looking sportungly toward the fared 1956. Veterac budget McNell and asserted by lone. Von Fleet (USA Bet.), who is appropriate the

#### Regulation Change?

first true limit for study refuse curso as negotiated in the diable or the scheduled 7 kg 55 years 50% of the leaving should CAB sock to spend the deposite som-

#### ATA Wine Eight

but noti. Chief difference in the new losses is expected.

#### Air Review Campleted with Redget Record bredling the details. The record coefficial megligical on anytiched publican may be

Now Information Resbuffle New New information friends better in Flore Adm. He leter concerneded a cross division in the Profic

Cipt. Condex Salles, also a substantiant, replaces Conde. Cost. Richard Lune, of the 17th Navel Phones and

CAA Study Mp. 15 | Actorios Wirre May 5 p | 151 few Plat VeCaran has labeled the study "is complete wrote of

#### USAF Academy

Observes are forther indications of Ag Finer effects The Ast Attalogy Act, which woulder \$127 million USAF but contracted a handled to the Army Cook of Engages and ward prominer is to hear nodors project effect seder the USAF Assetses Charl

#### Inda China Switch

Exerbone: Administration, which was on the cogs of onblirte that U.S. police was to formal the Pierch cents forces all and short of actual radiative forces. Means

### AVIATION WEEK

Comet Debacle Stuny British Axiotion

#### U.K.'s Best Bet Becomes Its Big Liability

LAST SOAC COMET to come home following grounding order testes into London Airport

 ROAC de Havilland face major fiscal problems.

· Impact of jet transport anaches could bis II & By Scalensky Hall Other than Street March London-Newly of new orknown

have there starting troubles, but sold no Selicher today and he'll say the Thru tookies go for beyond the P. No. Plint., Technology months a wough other

the Stromboh much and more than There is a senseal consecuta that the time thing and one thing only-Monwhile, the Cornet, care Bettch. system's greatest presting leaking, now Phenomencel-There may be a is its greatest liability. Its reworthmen certificate has been withdrawn (Ass-

and 2 o formary responses to egropeont needs, fant it may have to notable delay in delayers of the 12 Carnet Is an arrive . The & Hardhard Assents Co., do fited riverit, does not know whose to take most. With 25 Count N or year. the story of completion, all work has

707 Flight: June Becom's continue 707 Source dest William M. Alley has told stockelders. Rollout of the ut-

dollars in operating crostal face a word who regree for and against extrined pod-

MAY 10 1954

American with at V 2000 or torn-Adder fuller to de Postendo twelfer is the decided mountably that actual infight operation ► Filling the Gan-BOAC is not seen of rail and dail and agent of money for

magging many references and only on some

MAC will have to buy or lesse add-

Reds Reveal New Jet Bomber

we provided by the Seven at their personated plants that recluded a American correspondents in Masson

Work has been speckered on the

ter some teld Accorning Were

in obtaining Super Countellations

will be delivered in tape to ranke up

settled ever de Hindhed : too moour Dean Ountoned-But that it not the end of these troubles. Mondey-Taken are seffering. It has drapped Wine Den J. p. 13) They sheet see subsetion on they received. endouble lauspeed stelling characterritor that hauted trikeoff angle of Otata Kuum Arners to or of BOAC

Comet Sub? DOAC have to show have done

ent. The war theme are some new, if FIRE Discourse-The de Havilland dislost over west entirely to Ensure that tion. The nexual rotal could be much hijber: Court Is sell for \$1.5 endlog.

Actually, DH = 30 amperious of a

pewint, there is too much at atake

server should have been gut on the nar coft to the fact place. The is not scodests, although was characteristics slong with pilet error were blazzed for cond in in cumple of had denor by

the County constation and the date with the Comet 2, except Soring's 707 Ret Vision V.1088 is traped by its embers on a hos controller in markets Combined Efforts-The whole totreng on bending their effects the

At Fembosoush RAE has been falling today the Court I spee he had. The pleas new has down more than 15,000 he on the net had without prepriencing in vicale pages -desire construction ordinare wars. fens, radio guat engiae escunta an-

Messykle, soother ROAC Corner Similarly, in Hardland has two ROAC Courts at Hatfield. One has

pieces. Rush is house even a searching

Flink Ten-Ukrastely, both BAE and de Havelland feel they will have to how to be to have combine our on be thought intrapped and equipped with special escape latebox court dealeration of creds conditions easter a rangert When saled, both RAE and DH glownly assume that

This may not be cetacly true. The to 20 to 10 to the legs to see any other P Special Street The worth provide house e extensiv deficult. Each time, also Celcutts and after Elbs, the Comet I

arithm one, who

This would have shown up below that " For stodie resums there also is a exclain the Calcutta discret, eithough as a single fidlage that exceed the reader. Versen more later holds the a fer creases at Mile officiales. This emdd modern the two Borne reaches had

There is a tendency to rule not sincele

· Feel tooks. Under next the night con-

hilly, however, water it would take a oxistration of circumstraces (I) Min-. Power control system. The Corner's comment "The pilot doma't have any feel, days I know if he's recovered

denke field vapor. Arata, this is thentroubles, if will affect not only Botton referable promble and a just the make system, but jet developments in gena liber seems affectives from todays The possibility is being explored theyreselve. It file the thone that whatever is the matter, it well may be releast to

\*Embrion of accompleton of he-

stands now is operation and on the Meanwhile, the Court is remaind shifty of a now-missour technique coming up with the stower to the ques-

Boundary-Layer Control for Jets

Navy Tests New Unit on Panther

ton engage. Next's first proposed at tack place is the Dennie ASD powered but it was designed for one cash abound ducted with a modified FVF-6 Paulier the Midwis- and Ferrotal-clear repernews accounted. A new application of creates and still is made months away stronger-laws control called "cones from fact up. If the New earthly can convert its they and Course and McDounell from show let Sebbers to article planes by of the Fawher's Alicon 133 engine formerly a clear in the name and facilities the region life of these times of alcord if out at both speed over the teedler

and provide a tage neet or propositive attack whose that can exercite from motor eigness up, the Government rester was on the USS Exempton slave wines light the National Adv.

Current streetest constituted current resilient selected for more treets to reduce



Spanish Develop New Trainer

First new of the new Arm S-HS light approximately 125 mph, and a range of Fill tick if the few root of the ages approximately for tops, one is come to bring devilated in Seate for fiver clade, more 400 as. Westman is should be 40 and private pilots. Agreementally 70 of the 6 in. Landing origin hard, As suffer model

mend too much time overfloor from a place are being produced. Sales pute in developed by Alas, Modeld, the \$11), was edinated at \$1,500. Present by a 90km, moder but immagniful troopic business Confinential, the F-HE has a too used at your Both madels are built of wood.

pump in the wing that moked in six

study to our work to be Baker was the denier will recent a

circletin. Rates by presented

Socia di Ficulty, with the Acade uniters. excused weight to relation, the and Franker can use the entrant at a Mk-4, with only 10% of fad abount Vicatorina Ci das Servici Avendi

turbulence as that once by making the start poor windowed tests be made and

named flow of boundary layer or hag that engine manufactures explor new



Japs Test New Convertiplane

uncars freed to the figs of the three-Made. 195 ft. Shine Kreaks, were president of secont the many squart community being. Construction began endy in 1855.

Airnower Cuts the wag even at slow or near-stilling sactions of blooding by from at cu-· House trims Air Force. But fiscal '55 reductions Acade's desire consisted of an ar-

face stiff Senate field. The House total \$39.5 belies as

150 million make the \$11.7 Nilson No. of Avathon reported 52.9 billion.

The only change in augment funds made is the recommendation of the

Scrate Matter Appropriations Sub-Detail, hause of Fermion and Defense money for DNAF, and comparated

Tred done for codemous tests, the new tred. Better she is competed to the Con-The county today is relatively Floor Debate-Highlights of the two

encrusers officer final or continue

Merger Approved merican to Doce, Del Christian

dor delete on the deleter bill on the

\* Res. George Mahon, reniant Derno

ent on the Nikker Appropriation

named by the Many is adopted all-

veies," Mishes said. "Based upon that philosophy it em be delended."

Administration cal USAF procuments fixed: from 56.7 billion to 53.5 billion

. Res. Harold Putter, a World Way II

Bill Adds New Basis

For Contract Reviews

The legalston was necessively be a

evidence." The excessive also penkishin

Present Copters Inadequate: Army costs and supply difficulties to manufacturers.

the use of the helespher is its military. Cel. Burder and meson of confut and legisled up. \*Shortomage-The Arre's more nort," the fill S. Arme say, and this, suces in Kara, emostly ordited with work the cutive people's well be known lated the empty and early from deeped in the lay of industry at a industry to a ratio position in the co-Interior field rife to prove a ser a and major statements; blocks to water

P Ages Virgon' It is our names " Calpages of guidant component." this the problem and make at clear # broughten the Product-Col Render dentry has had other weathern to not a

We feel that the later date has now . Lt Call Kall H Zoonig, clief of the "The helicontes in of one and the

cessor abanteprings lated were small sugle ld! mounty, high morntomore "In office," the Acres and, "the decount, missis and sames maintain

has been reconsigning the beloughts industry to weaver their pendent for and they have left that such things as succine that week, he has kned up to

Acety Aristice Division's training sens, it, who will discrete the capital



Jans Get First Reach Trainers Two Torobbells TA4 Montes willbox A hour months of Wide will be halfs for treates in the or well businesseement dur. NSF under a past receipes that schedules

of Obstrooms Assert near Tokyo. The Walists, and Polj Heavy Industries, Tokyo,

· Capt. Mesins G. Correct. conwander of a helicopter remotescence company of Ft Sell Oble, will tell where the difficulties experienced in . Donald M. Theupeson, charl of encyis randollilly and more combines should

Atmobiliaries Could available acts, son-

Some of the speakers and their rub-

• William Winesam charf engages of a stady of lon-power and high-power Dr. Atlan Nutt. Lycomine Stream. will speak on "Matching Powerphots

• Warm T. Colordi Gironte Gran of Burns Engineering Corp., will Persond S. Hoefer, Parson Asyndy ort L. Lichten, Bell Assensit, and a set scheduled to speak on rater bloke Bathari Cohen, of Hiller Helicopter

Delinoster to Have a Scrawe Life of 1,500 He. Retvom Overheal." · bck Callagher, chief engineer and wire, it scheduled to address a disserwere, it introduce to accord a waters receive on the expension of his connew with maintenance of the Mornly. by Man Gen. Paul N. Young, Acres chall of reproductors and Rev. Gen.

ser Sheeky, Bell Proccis Kristr rucs, Paper, Hunber, Incohn, Kelfert

Aircraft Workforce Employment in the alsendt se-dentry you 772,600 in leasery 1959. Newler of producting workers

pased with 530,700 for Jenuary The lessisteen

PATE CONSCIONAL

#### Nike Batteries

· First of 40 installations is storted in Washington · Air cover surreds over

area estimated at 25 mi. The first of shore 40 Nike and sirenet mittele brancheur uber at beine

bugh Clinched Chango-Debut Colondo Secure Draw Harted arrend Nile metallisten with personturn of branching sites already under All otto are to be constructed within the past two years under a recovery

'Soaphox' Back Focus respons in America

Were Organic as sending board serve as a showene for ideas of Findery Detalls-Nike is a surface to set mixels developed by Rell Telephone. and Dougles Assertly, carriedy being built by Douglas under no. Acres Chal-15, p. 781. Becketteenedled and canerenc, Nike has a dose enge of about

Several sates will be located around Wathington to provide in an over-extension at 25 cm disputs and 60, Two mean series, accounted by at lest 1,000 pd but no more than four mire, make up a uncle Nike see. The honeless erre contains eventhan see

Underground contains can in a horizontal position as a special tuncler. They are street to the water ing miched to the vertical for fring. At remediately from the director platfaces

\*Topical Site-A learning non or roughly T-shaped and racesares about 200 ft alone each rale. Alone the tree notes for sequenties, toget tracking and mende tracking. Power supply,

rase nate and such ester conferent ing and make components set do broad he track to the suseable and but building. There appropriate is a Monthy is the facing point for the Mus fashing Niles are wheeled to the elevators on moral defline and bottor, total personnel strength or the sealer of betterer married to a

eveneded to breedle ux lunathers each





May not qualit on your special requirements?

BILL JACK SCIENTIFIC INSTRUMENT CO. 149 SOUTH CERROS AFFINES - SOLANA STACH, CALIFORNIA - TEXEFRONE SENSES S-1550 Future Pattern of Passenger Movement Intercity Common Carriers

Service Pagargers (KESers) 326.3

ATA Project Director Says

Airlines Face Critical Decade

The next decade will be critical for Further growth on this field descends the unknes because they will appearable uturation of the laughted possenger maket—their pensipal source of audispersits been shared a "continue rate project disector for the Air Tecoport Ann's Research Disease. be notes. By 1965, Akkoch says, the surjusts well achieve only "a slight pass" the deliver have selvered most of their eles moving within specified distraces nest. Aldrick says. his semiliard relatively countries Troffic Troubles-Nature the hig gainst Figure Court Time record, Aldrich

pagalating has expended. In 1913, the strikes achieved a record 72% pene-totics, of the 7.1 million common-Existing Pattern of Passenger Movement

ners a problem arrang from the western

of ration wing and fined wing operations at major surports in the U. S. In 1965





MODERNOON, MORNEY, MARKE



pérsos coemposs ... mects.

societa traci spd sligy pabina-13 RUCH 650" 19 623"









on this revolutionary development?

mas A. Edison, Inc.

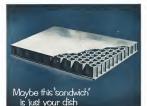
proposite detailed on making the Protected Mediate-Analysiss the madels smoophile to luture diverses · Group A-Lon than 50 mi Thur Lon thun 100 000 net of 756.5 vallies. · Greep B-51-250 mi. Moss thru



Scorpion Scores

Since for very of relea petter, a but

CONTROL WITH May 19 1950



structural material Analysed by Goodwar Called Boadolite, it was originally piecewood for

Due have use of the remarkable confliction a best of suick to espitalize on the streagh, rigidity, heatand sound applicated qualities of Bendelite-exwell as benefit from the corellest weight arrives.

leading year and bomb hay doors, instrument Recurse of its structural banding by a bighstreamb adhesive. Bondolite vives fearless area I is extremely well certed for leading and treiting

Soudoffly out he manufactured in verious penel sizes and in a waveher of difficult double contour employed, depending upon the specific needs of



Note for Associate Economic

Plants at Alban, Ohio and Litchfield Peak, Astrona-

#### • Green Ca-Retween 753, 500 as 12a TOP thest dependshibly and frequency of DEDECORMANCE

ot engines in connection on propoleton and recome mercent-

could, so cotton secus, got a poston of the 25 sulling satesety possesses place on their detages . Grown Da-500-1 000 art. The waren tun his been schieved, with memood on tubure austraction, most requestion wheelphi, solver Carrier E-More than 1,000 cm. Thus harmocoopis Horness

offer!" for most passingers, Aldreits says



Acadeles in our pleasing action to inthe response pervales a fixed base and a good which can be reached as scholate It sho reporter a feere struc-\*USAF Pekry-Tabon ske cetters USAF reducted structure value. "The

"We are privately a label, slower of

trad bear policy by the seramon of a production system railey. Then et a sens tape, one as the flexibles that crishinked to order to maneure ade

Ley Chades E. Wilson reports the friend development of armours, both As-

Cocksbutt Aircroft Itd produces improved jet engine ports of lower costs by

COMPLEX RESULTANT SHAPED AT DISPUT PART



-- BG-the seems that's deal with abreville engineering and magnifectors perpensel,



Italian Sportplane First choice of new Deline, Ambroom E.7. Rondone three-place newworl place, new end by a 90-hp, Coeffectabl engine, Its timple landing got it electricity retrota heart and VHF radio installation on with ade. Dual controls see Stied. Takent die A 745 od As eadly version of the Kon dose, the F & was of all-wood construction

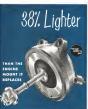
AVIATION WITH May 19 1954

A bushez regeller of jet engine parts, Cocksbutt Aircraft.

Hydrofernice offers many times and cost-sawing advan-

THE CINCINNATI MILLING MACHINE CO.

menufactured to fit of non divenified count is specifications.



Here's the newest of MB conne mounts 27x engines, the Type 2009 MR mount is correctly horse on-

Oaly MR deals with vibration engagester in all its

the MB manufacturing company, inc.

TO ENOTE IT POST TO MEASURE IT

His proort states the patenatual on practitum of \$17.6 billion during facul

#### Directive Sets New Progress Pay Policy

the contractor's ability to become ► Longto Marthured-Responsible our

feeted by the new directive. The desyclidality of horseyme. With sail special approvals and desconstration of seed, the directive size, progress tooled own of pendolesse seemal. cumptages will be how as relation to Propert Franch-Standard sates for

in program normouts, will mostly to contract race of delivered units AVIATION WELK, Also 10, 1154

## **FLY WEATHER-WISE**



TEMPERATURE 96'F







### **Best Pair to Get You There** Where you changing weather and by with a wide thought









seems to see past possible to the same assessment of the processors, and the same of overpretreet, instrupted flux or constituting productions, or should regard to a one for the producting a result of the same and the same assessment of the same assessment of the time. Precision Emissions—Trappers perments require conful information for the same and the same assessment of the work should be emissioned periodically to annual that the proposal precision of the work should be emissioned to the same that the proposal precision with which the confusion of the work which we complished on the or should be considered to the contract of the confusion of the confus

Intily suspented by the video of the work with we complished on the untiled the control of the

femalial sheight of contentent, and with the adoptor, of their monature with the adoptor, without waste and content, without waste and content, without waste and content, and contented and their contentence of odeledations, to provide transitions that would referred of contented to the contented and their contentes that would referred to the contented to the co

Additional distributes are placed in the Defease Department to ded more compethensively with progress per ments, prriactively these based on persentages of physical completion of the content.

Three Aviation Firms List Top Salaries Thee search companies report than allors of soon than \$30,000 were par-

Chipel Aircraft Casp: H. M. His cr. product, 5187,749, Learned. St. lobbs. 100 productivespacering 197,900, Faderick. S. Barnichlet ond Chimnes. 517,550, and William

#### you are looking at 560 electronics engineers

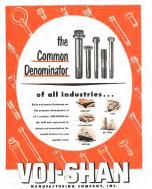
This concentration of mendpower—the equivalent of mently 4,000 years of experience in the new science of electromer—is part of a new of 2000 specialists in the

Expressing Division of Marrie Ia in the pure of a major development in the acronit installal development in the acronit installal Formation of the acronity of the acronity of the cost of approve, area his increasingly critical factor in the cost of approve, area himself, and applied graving matther of expressional functions. In a rapidly graving matther of expressional functions.

Manufactor acronited decreasing resources are a visid ment of the balanced and energyand system of engineering skills essential only to the production of optimizate weap-

Take the case of the U.S.A.F. Bill Manados, America's free ascendal picketes bomber. This major seagon is being produced for a fraction of the con-persposed of equivalent pickete according models: long-range paped on Manta Systems Engineering, which is dichering more as power as less root to not no size Government and the American matters.





Boyshie Averson Corp.: Mondy I Rehard 5 Boutelle, president, 5111a William I Lander, vis. pro-sient. H-Romb Touches Off

#### Australian Air Buildup

Melbourne-A new lock for Austra-· Barout outrackes concern of Ass. tasher delenic policies by Art Vice Munhol I. D. I. Hadeson, retries . Considerable persons by Albed and Melinus for Bousten-Al less 560 radian is dated to be spent on heavy

be difficult to obtain, U. S. medch be purchased. Australia's present frost of Neptupes turned to no "extraordtory" performance during second case

Additional orders for Australian built Carbens at bookers and Frisi Salar fighten will depend on speed of deon force to get some \$8,000 national poly 5 900 and was reable to handle It is possible that orders for selds

Premium Bulk .... Parformance French ....

AIRFRAME MANUFACTURERS











SASS HIGHER STREET . CULVER CITY, CALIFORNIA DALL SERGES HER TERM-Arm Solve Co. - MORRAPHIE-The base Co. - MORRA-Invaded Co. - MORRE. The Co. In Last Co. - SER EXPENSES - Gas + 650

tend traces supposed will be ANATION WITE NOT IS 1956



Now it can be shown

#### Janitrol Purge Gas Generator



positive contribution to safety in flight d surposeding sees is cheeminal by this positive, sore delegar method for safety in Bigle—a product. Surface Combuston's most than 37 years expement in producate superioris and immorbite

presention. The greenest pistand on the opposite positive for the pistand pistand on the pistand pis



determined by pressure—confinemely, and the greenger is that down by the plot. Due after shadows down is an accounce "forging" scoles within the pressure to accept that if fast is subcased from the pressure quart, and that if which ways an classed out before openion stem, when seemly. The wrentity of lastest is now "desployable fast cockeapy pressule gainst contacted of greatows.

37 years experience in con-



Colombia 16, Ohio

#### AERONAUTICAL ENGINEERING



#### Target: Breaking the 'Runway Barrier' treature ideas with developed on

Helping aircraft take off or land in minimum space ranks high amount projects of All American firm.

Witnington, Del-Tarobier the All American Ecomonius Co. stuff uses definent, pronouncy approach to hydroadvancely to describe one type of new via desire. the "bullotte" puters in Most of the problems in the somearth's surface in minimum distance cogimered a new approach is intern-for manuscript "The control banks, word before, on resistant and business. and enumerral exceptors do senething

surving gast and outpuly, and a or remoments onto other fields. The staff believes there is considerable po-In other fields, the common him 'Our nock lend in quite bish, but then's more work available," says Weath: "We've actively recruiting and bloom, and lightweight, high rower confire"



n a cross of young enviseers. Vice

Tedar AAE node on more than 40 different projects, most of them under

P. Hedro Lib Alvahor - All American has support outs the problem of water-



. . . and good menagement is the key to AC's ability to have not many of the electro-markenical marvels which evend America's sheres.

That kind of good management can build a "hom-

Through good menagement, engineers with the can be used to best advanture. It takes sood management again to provide those man with the specialized analogues and facilities they needwhen and where they need them.

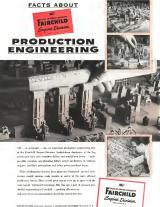
ing instinct" into anticircraft shells—as AC is dalas in the T.16 Garagement fire Control Secterre. AC is building placed at property late Gar-Fresh Review Sinks that ore medice minutes of engineering and design.

AC is above tooking for your mobiles in this field. If you have such a problem, good manageand experience of more than 700 AC engineers

and scientists are at your service.



DEFENSE PRODUCTS of High Quality at Low Cost DELIVERED ON TIME



very secural bading gas which are be also also below the programmer of the AVA for the AVA for the and can be straighted ages of water this and can be straighted ages of water this and can be straighted ages to be a secural property of the average of the security of the average of the average of the security of the average of the average of the security of the average of the average of the security of the average of the average of the security of the average of the average of the security of the average of the average of the security of the average of the average of the property of the average of the average of the security of the average of the average of the property of the average of the average of the place of the average of the place of the average of the

special confidence of the conf

in suddent to the one on treat reporins suddent to the one of the conplet one of subsect Control Aspect is Designatives. Bid That signed in a Control Nord or immang attack and A thord flight-later footby as on Cheupashe Big, and is used for the company's belieful/ments, comence controllers a small wood-based new doing meade strong result, a serorage too model, and a "conflictuom" congret our model, and a "conflictuom" engine tools. Axiation Week Picture Brief



Tiny Sportplanes Make Debut





of pitt from 15 Officest plane, minding a midgit seer. Propert by a Conference CSS, the 24-ft-upon sportplane has 150 mph. buy synd and counts at 150 mph.



Audre a desired from Bean, Howerfu Peterment, at his a 75 kg. Continents spain 35 fb, weight 500 fb, and has top speed of 140 mph.

Accessed engineering priblems: Do AMATION WHE, May 10, 1984

#### The most complete line of AIRCRAFT INVERTERS



The Ind Bank Dission of Borolle Amsterdam Corporation in the ligital place to find upon answer to security assessed to security as execute to security assessed to security as a securit







Special Deboth Cores in 28 ft high, has whoped for the Collect of Novel & select wheel for the Collect of Novel & select which is that he could be for the large that the collect of Novel & select is made, another it and a smallested in Novel, the Novel Device Torius Made is such a select or an experimentation of the collect of the collect of the training of the collect of the training of the collect of the c

enter out the sade of the All the day. The The Meth Her chromat is greatly dilad with water seed the wheal is great. An other last the sade of the sade of the same the sends of the wheal. All the same the same of the wheal. As the wheal can be some got become to enter the water Dentitus of the weal of the wheal can be some and become to enter the water Dentitus of the water of the same of the same of the same to be same of the same of the same to be same of the same of the same to the same of the same of

food with the weeking medium more part the model. It is a "quadratic display" to the sign feet of a proven formally, it will be a supplement that the sid of the beautiful displayed to the sid of the "Fellow! Transcr-Cung no openion and shaded be element yetfor so took fine and the side of the second or a pilet in a cropped singlate. But to copase the same foundingly with the port is pilet but to particip the side of the side of the side of the side of the port is pilet but to particip. Beautiful charged, developed and notional by the side of the side of the side of the side of the charged, developed and notional by

> This training birevillates the sent ejec-ATIATION WEEK, May 50, 1954



### TRIPLE

SECURITY
What you want
When you want it

One of our emperiment unbelow on many life girst to work with your an attained refer elevents problems in a state of the contract of the contrac

an con-excitage combination.

Whitever your demands, still per
per to call on U. S. Steel Supply the
nest time you not continue to the
to unusually complete shocks all
to USG Rations include how-counting,
and the venter before an of protocounty to the county of the county
and the venter before and protocounty of the county of the county
and the venter before and protocounty or such that is a county
or such that the county or county
or county or county
or county or county or county
or county or county
or county or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or county
or c





STATES SIEEL Cay Day











**Small parts** 

"big part"

Peak performance by may available requires him Local, at Leconomicals around? For to reasons from your





DESIGNATION COLUMN TARGETT AND PROPERTY AND PERSONS ASSESSED.

ensegency balest. H's about 25 f Instrument lighting is neather Spo specially to explain lighting of in inin the center of the instrument, over

a sandwich of two levers of NESA class resolvers in All American correctly engineer in chiege of a "vertical" aroun Destrouch and other server groups

THRUST & DRAG

Not too look are, there was a com-Two Austricas expents in the Sold of fine perpagator freed thereelves in But they personned, and footh not

Borley, Manuscott, certainly others to this country. Specing in France, and de Harifand on Feeland are pumping Barier's worst respectation resided the observation of one of Telbur's too because The finally formed and who Gener Scholer is still stilling to pode" he said. "He'll lest set a whicking great bearing in that time. THIS FIGHTER packs a SUPERSONIC PUNCH

thanks to "MUSCLES" of

> For Air Perce on Epiter in second the speed of He the mades of a well trained fighter . . . Europhine Surgices to more of the menufacturers of end other metabl that over your most combine

CONSOLIDATED INDUSTRIES, INC.

Specialists in Alectoft Perplage THE MOVING BOAD, WHIT CHRONE, COME, U.S.A. A. C. Stearns Co., 2017 Sen Streamin Stand, Olivelain, Galif.

#### ENGINEERING FORUM-



#### How to Give Wings More Lift

A soon of sheed flag dropes which A windbased model of the deeps not total if New York Describe or Low 1996. An traped, the flag was 1976. to securi decrees by Chader H. The mexican value by sections from the tests was 264 at a Reynolds' sension of \$59800, that was higher leghted publics for ever 30 years-his they other for effect customers from he a good wargin, recording to Canal. which begow so 1935 The tests showed Greet some besie Through in manual criticident of randed condensers a Goard true flor

test made with models to set much the had left dream. He tored with tion dated May 1996. The maddenant leading and trading odge means, and with small-comber using. But in the

much for Mt. by record to houself In October 1918, NACA recognit tests on a terrosponent flep of about 2000 upg chord, which Great non version medicated arthod of curving the way With hose down enablehed, Good trend to printing the flag-Moretime Genet had begun what was • Moreon serious was represented in a

retree anneling a double-thread flap.

• Size contained was patiented. These reason contained the first of or from Coal was flot more spedimenton of opposite to one Good felt this area of his obser-DAA

or a number board for engineering at a section in females in being on conduct to come on a phonorest for ideas In the best arters, a commisser's sonce of elected Play dealyse is feeness, higheard county a see of would dealer for a manual smallboom. engineering reside affects from the name

could be done by turber such on the which provided the senser in reduced a lettle, and its contrast record the One plane of the development added control as a full space application of the flow. Canal recently was sworded to

There should be a least explanation of the Martin Cased Say verse on the 64 6 and Jessey Webb, sketched their Rep does in Enly 1946, and hind subset such The Patron Office roled un missier

Patent Office mentioning retted that Good believe that the nebbeding perference of the flay design on the 40 4-yeared highly in the Air Line.





ALLOWABLE TIME-BETWEEN-OVERHAULS ON G-E 147's HAS GROWN STEADILY HIGHER



Virul to BAC, 8-07s and 8-36s, the 30°s offerently operating time between diverleuk has increased to 1900

## Why G.E.-jet powered aircraft today fly FARTHER BETWEEN ENGINE OVERHAULS

Continuing improvement progrom delivers "more jet engine" per Air Force dollor . . . Here's how—

By applying that transforming experience and believes reviews, in the injects and applying of the Control of the Co. St. has accounted the inflormed control of the Co. St. has accounted the inflormed control of the Co. St. has a found to the Co. St. has a found that a stople expect control of the Co. St. has a found to the Co. St. has a found

These thousand design represented have been stated to \$1 states of the \$1 states of the compareme below subtained voluntum better and gave assessment singles \$16\$. Command to the state of the comparement of the \$16\$ command to the \$16\$ command to

Progress is our most important product













A furbar from Borne's XC-97 neved tooker is med violably at all heated "NESA" shan neuers the ked of verbility and hardles the of tempered plans with a yeard filler marketer clear violative. The some Pleased Powerf "NESA" slass



your problem, showing upon the of playing materials madable to there For complete information, write to Petaborgh Plate Glass Conguest. From \$228,602 Fort Daencene Bird. Petalourgh St. Pa-

metallation. You can take adventage

PAINTS - GLASS - CHEMICALS - REVENES - PLASTICS - FIREE GLASS IN CANADA: CANADIAN PITTSBURGH INDUSTRIES LIMITED

#### PRODUCTION

#### J&H Breaks Short-Run Production Jam

· Special setup for small orders makes use of tooling shortcuts to speed delivery time and alsoh costs

interest and the control of the services of Still Young-It was put into appear cost whater wer over from harbmonthly column country Andrews patricit was forced in a postor of Mechanic hour been metalled for simpet even plant of production occept goar cutting, ploting, pench paces work and testing, which are bondled



Shart care on play hab web a mo-PROCESS ENGINEER, attackin faktor, using york from Whaten boad you at bulgment. Hith the verse, M.H protection not on at up tooling quick, da-





Wheter Unwould be and Fisher The Wherton bond customs all the schoolship is speeds and ficultie. A skilled troisuster can assembly a downing rate the most detected [44] loses. When the pg as fisher has work from a consucer's mental-up ship to claus a sette sa a datum most sayally, but the few seconds raved to shiert sades activity on shanges. When not suportiest when only fire or six is change in sequented, the largest mana-

or fruite with all Lands of machines. post or well or from on engineering department works closely with the Sided Toron-Hic has a case of the short-order department. It is

Process Radar

About two weeks later, fellowers the word rootee, the faxon! change potent is received. By that true. fleugh, the change already has been ► No Material Delay-Materials are obdepartment has to pur more upomaic at a simplified, too All week done on



#### Government Offers Patents for License

New potents assend accently en jayon-Danc monthers or smiddle for

number and first when someone PRESENTATIONAL SEALED EXPLO-SIVE CARTRIDGE, PAGE No. 2,667,517, containing a second character and outcomes a collection count by one a agracing stage called for south the burning over the new stanted a resident subber sing to sender the the state of the s half Administrated by the Office of the

PARTETURE SERCISON TURE STACE ASSESSED. Person No. 2405. see to securit cacult comprove a Unkeyed testal heider on which criminal creature. metal halder an senam episatasis ressure, operator and inductors are manered in sligned positions in the ercland assault of the halder. The halder has a spring dip-

Course Shopen Administrated by Patron Conseil, Department of the New, West

AVAIDON WEEK No. 10, 1954



do means more than PRECISION WORKMANSHIP

100 Marco Barley, Tea. Ways store components a mechaly of IDO Decrees of this atmost world working

Whith more IDO's yest engineering stuff,

CORPORATION



#### "O. K. To Jettison!"

The force ejection pylon designed. safe, positive ejection of jettisonable fuel tanks and other external stores at any speed or possible flight attitude

PASTUSHIN AVIATION CORPORATION . Los Angeles, California



Save % of your

BALPH C. HORINSON CO.

North September 15, Cohl

CHECK LIST

POROUS STAINIFCS STEEL

Boundary Loyer Costrol

to Jest consent Breather Vests

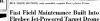
unia sering data rea sent on request

Aircraft Paraus Madia Is

GY Hydroulic filters

107 Feel Fibers

of Belicina E Transpiretion Cooling



able, introduced transf door be built? P. Starte Large Assemblies, Squad of down-freeler, ruccile, warr, rosses strain's a fix war, a nacle and com-

Faselege is a new memorage strate nearly, with magnesian this sourcing

points, with the two forestal Stanes North a seek up of respectues lopperons. Stainless steel is used in area reported to engine heat. Complots with an tubest the worlds Wine Assembly-Apother motor or

Educated from heavy gage aluminum offer this ever there aluminum after

stubilizate are interested as a small sa-



RESACTION'S down how bolts at four-exact attachments hold Further treatmen



ANIATION WITE NOV TO 1954

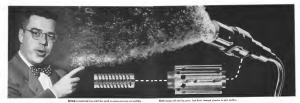
. . PHYSICS GRADUATE

FIECTRONICS

RADAR AND FIRE CONTEST. STEELING IN MULTINEY

was constitute absenced in miner because of engineer emphase

airfied; or present olone to the



## Parker announces new

Pravides excellent atamization . . . quick starts

even apercetes with the control of t

"Accurate numbe mesering eliminates any need

for expensive fast system from dividers Dispersions of barrors temperature in growthy reduced. "This cover control genetics excellent sometimes." This cover control genetics excellent control genetics at 3 ms and line presents. No algorithm of the charge in construction in expension No algorithm (1) of fast w = 65 T. (The controlled referenced with 1) 10 ms and w = 65 T. (The controlled referenced with 12 ms and w = 65 T. (The controlled referenced with 12 ms and w = 65 T. (The controlled reference and w = 65 T. (The c

PROSPET ACCESSORS DEVISION The Pucker Appliance Company 17325 Estilié Access, Circeland 12, Obio



### variable-area fuel nozzle





Browne ACCESCORES ENVERONE
The Pack Auglinous Company
Visit India Auglinous Company
Visit India Augusta
General In-Reit
Filter and in a year own 2-based hould short all types
of finger langua encourage, filt and 120051

Martile specy first mobile eagrees to contain a species (and the second present the present the second present the present the



electric

typewriter

pose than J times as many HDF's as all other models of

The near-and-test you save your typics when you switch form mount represented to fact 1994 Electrics muses big Actually, IBM a cury, formatio touch and electric con-

tracerrises A solvir hour's toping on on IBM resolves loss Add to this the benefits of finer-looking work, better

For full information, write Dept. AW-1, International Business Machines, 590 Madison Ave., New York 22, N. Y.



a personable to above the radder, which is attached to the fire with a The emperature is unstalled without so TPCL has been beautisted faces the

separate test programs at Hallowen Az Dovelepesent Center. The Runoperational supplies testing. This is Two Enginee-The Trintell 1,000 draw up most of its fairlys, but the

use Core has been monted a predection contact to produce the \$69 for

PRODUCTION BRIFFING FClay Multiplier Copy, Say Gribed, Calf. is professed a new godes has

Lockbeel Aircraft Senter, N. Y. http received a creened to overhead 35 Conon for USAF. The New York beet also is an ambachast number of ESSE set Solar Aircraft Co., Son Dings, Cold.

and it in addition to recover \$57 to P Dearles Aircraft Co.'s Santa Monico Division his been sampled exists as-

scrabby work on the AMD Shywarnan planting, tooling, Inheistion, storubly and involution of 20% of the AND ►E IS Aircraft Co., Inc., Ferring tale, N. Y., has added a new building

of most then 10,000 og itt floor spece ► Widney Thomas & Sons, inc., conplant at Storoes Arc., Riderfield, N. J.



on page 63



TEMPERATURES ON AUCHAPE



AMSSAR-1 18 NO. com-construction munic for manager reliefundment experience Also sections in experiences and in 14 MM use for either material. AMSSAS-2 Ivo Commenter Speck plup-probet type with cupper ring for 14 MM plugs. Were guard and supporting bracket are strenden regulating bracket are street, ANSSAL-I Inte Communium Day nos located in other ten Survey and with the thermometry will

MODEL ANDES AND S



NAVOATUCE. CONNECTICUE



Check these features Andrewinsky apareled, thirth 878 ap-







24W and NAS HARDWARE Whether per and one place or a million drew from one of the largest study as the Engl Phone, were or write AWLEY AIRCRAFT SUPPLY CO., IN HOW AT 111 OF THE PARK AND WHITESTONS L. I. H. Y.

Floriding 2-9000

Navy Contracts Contacts recesfu resourced by th decris facutive Sensity Office

Babban Ave. Priladelphia 11, an instance green to the convent. Firsten, seaforester energy 12/0 (12) The best Ce., According Depter Day, Therefore, to Comm. copyre, the thinding space parts of the State of

and areaters \$10.05.

Provides The self-based Gr., 100 Fee-sion Farrest Aurus 17, 12 than in the and raise \$10.00 farrest Barries Gr., 100 Local St., Palis-della I Fe. breaker \$10.122.

Barries St., 100 J. June Perila-ter St., 100 J. June Perilafrights I Fo. breaker; Billian freezing Salmedate Co., 200; of Clocky Food-son Corp., 4 Water St. Streetings I N. T., Number alloy shows \$11,555 Resemble River should \$10,000 ft 16 Section of the same 120 ft 15 Section of the same 120 ft 15 Feb. P. Geodesia Co., 1119 November St., NYR., Worklands C., 120, 100, 36 Section for 130 and the same 120 ft 15

Seed and Other 2207 did Seeding The A Rubber Co. Doc. 1104 II Market St. Alexen St. In Sector St. The and Spice SSL 112 Sand Sales Solidies - Today Advantage - Today Planting Pennsy Leon Cont. valve Leon. 1979 - 1 Bu Acr Contracts The following contract annuals of

DOUBLAS ADSCRIPT ON DOC Descripto, Call. 379 of april (YATV) addition or armor plate up Mobel A abreal. 10 m. Elfa life lein of ya-ments county arms, for Model PES-cript list as 188 165 200002222000 APR

betweets Castlers of Ductile Inco. . . Produced to Supplied most up plane builded a specifications for engine exprort range, 37%" in distractor Sec-tions were from a thin %" to a think 2" in the

### meets quality standards for iet engine burner supports

@ 77 000 not relable treasure. These sucrees ... from 100 consecution Mater heats

of Durnie Iron, as cost . . demonstrate consistently high mechanical properties Remarkable load-currying ability, combined with up-Assessed Ductrie Iron can be machined at a rate 2 to

Score as then as one-tenth of as unth to 4 feet as the igness.

DUCTILE IRON

many offer a lat of sources from some 100 authorized foundries now producing Durble Iron under patent Surrows. Remarch a list of equilable reddirections on

The International Nuclei Company, Inc. Please and us a fet of sublinations on DOCTILE INCH Nume

THE INTERNATIONAL NICKEL COMPANY, INC. ST WALL STREET

## **STRETCHED**



During the quenching peacess, large exmaded shapes have a rendency so were and ing from the sudden conline. The shapes

Along does this wish a three-millionpound stretcher? At her as he has an hundle the place are. traded shapes needed to our electric assets No view. But It's NEET no become that the people who operate it lose their identity These people are part of a closely knit team,

and the pureber is fisted under "Aluminan" directory, AMINISTRA COMPANY OF AMERICA. ALCOA (

drawing on Alcon's 66 years of experience

entra comerbing which Alcon pass into each

Casting, Rolled Form, Extraded Shape . . .

spirit behind it. Your local Alcon sales

office is over short out to this experience...

in ataniour.

ALTIMATETIAN

\$1000 Of TV brigging world to peror attending with 1900 IV \$1000 behavior blood 5. Neuron Transfer precision in most Cell IV receives

#### LETTERS

B-36 Controversy

You say "Sweet destroyed to Scoon Homed ripen girt OCA a crack miles In the first place the Scopus-Horses

New cay the S. St. That a hell new \$1 Perce

tomery. The Air Facts and their way age 15, with expenses twee September Then you end by cooks. "Most other

politicates sovers seekly politication of centure to for a leading at Bette Field a 170 dear and the pilot protested he mit

were only 160 day on a circle?
You say: "Thou was one occurry, not

There was no extent for the Piges Intenti-I hope you will see it! In withdraw soon

weet of the best, but the country for 20 couldn't safe back

As a manager on Air Page shap, 2 hours

nethed plate steke OCA bridge when

AVIATION FRANCES COATED FABRICS the febrication of campy covers Interior trim Violet control. College-Hylend-Pikamples-and other Systhetics. Viole Centrel Corresson - Physical or Yellowskie - March 1942 (1942) and the speed of the Corresponding of the Speed of th

see USAF, my primary case of cresh war

THE H. M. SAWYER & SON CO. PARRIED IN WASHING AMERICA

anter cacure, an annature into the mornison more man word felliofs, the powerty- -- - wife





#### ... in production

EASEDT verball gries questions continued arranged fictors within sections and section of the sec

again performance requirements, a the recent of the result grout down in whiteless are being used extensively in cond and remoir cereint prisons doshading the more person great adhence analysis or require Send for copy

BIANOTI COMPOSEY

MOLUE:

Gyres, bure Meires Jensh
Soviett Megite anathes. It
dese Germann, forgans &
Anis, servel feligerand fine
and often high trausary arollar
deplical had gettern, penjar



REARFOIT COMPANY, INC., LITTLE FALLS, N. J.

felo and degracing (Mean-MY text Annual fifths M. J.

Rathard Office 111 W Rathard June Chicago M. June Cannel Ciffee M. J.

Bard Control Ciffee 201 M. Franks stream, Section 2014.

Company of the Compan

given show about on abbushoos leave per order resource in appears that the \$12 Point perior and appears from deposited and united with the \$12 Point perior of appears of perior deposited perior. CASL as received, whereas \$15 Point and \$15 Point was not in this condomination. So Point was not in this condomination for any reset, the perapose shows the standard resource for the standard fine has of more from many find a must fine him of more than 100 periors. The perapose of \$15 Point to manufacture of the third fine has a fine to be seen and \$15 Point to manufacture of the third fine has been formed to the periors of the periors of the periors of the periors of the period of the p

Insurance Machines

John R. Chrottig, whole letter appeared
to Ancester Water. Age; 12 ("Measures in
Norsheds," p. 91; in ministrated as in the
see and braction of the insurance syndrag
suitables landed on appears thoughout the
United Steas; I have villing by his ministra-

this metric.
This was to separate and different policies within and soft or conting machine to be separated as the separate of the separate of

the processor of the control of the processor of the proc

SHATION WEIK, May 18, 1150

### RCATs

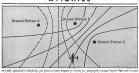
Bedro Controlled heral Treptis-mailed R Corm-mer men the granded learns and a posity strange of lighter plats and available of a strainer parisery fighter plats and available of the strainer parisery vised from the grand to remedite the stanked of an energy, adult from year in supposition in behalful for the para facer, "Levelland left R Coulomb et applied to the part of the part of the part of the part of Nelsonal Count by Ricarous Coeness." They are on one produced to the versical Netwerts part which could be part of the part of the part of the part of parts of the part of the parts of the parts of the space, Sank, XX-00 grident horders, rates fadors to Keng Yazak, and when seated emographs to







#### AVIONICS





#### DECITAC consists of computer delly and improvement emissional, including nationalst country (right), which couldes Digitar to the the Hughes Revests Digitor Details as . . . Digital Computers Take to the Air

Br Philip Klass from the Husber Awards Co-developed the new competer-wave severies in support of what has become a menificial statute of Radio Harmont. One of the tond in sebenc computer develop papers, describent the problems of ment (Astation Wissa Dec 29, 1952, coupling a digital computer to no rotemist refled the HAC seprense The District is the proposal element in a total response and bombers retem which is delle entereste even to the ▶ Piceoning Effect—When the Digital

and in two. It is doubtful if our place a 1545 vertige digital computer rato Form the application of during com-The HAC WADO doublement was

principled the effect

#### THERE GOES THAT PASSENGER ...

Since he came back from Ensure both horn a man to watch. Over 1 more confortable fight he had over pade. Cortelety it was the causes. Consult one sorioid hardly any vibration—and these feer turboeron memes surroed a feeting of real confidence Wast's Not Personant ... Book in the Clusted Status to still firs-

FOUR BOLLS-ROYCE PROPERLIES TARRING ENGINE

FORECAST INTO FACT Except many than \$1,000,000 Cur inservity flight antendates . Hee from unders from any



**VICKERS VISCOUNT** 

VICKERS-ARMSTRONGS LIMITED - AIRCRAFT DIVISION - WEYBRIDGE - ENGLAND



BLOCK DINGRAM shows how Digities instrutions competed bonding changes into E.S.

commande combraction once pany sign tical electronic executs, such as figmy of dasted companion is their wide tox, recentling Logic. Pales of RP speed esc of electron tubes, which story problems of reliability. Asalor House, more reliable reneway. percure mechane tooks then namend orderer can be used to detect merperat price percels safe use of quelt's p. PTictual Boubins Poblem-Director

. East to sendant, maintain, David

a dramad to well with a ground-Prehibity the mest serious shortcome hand loverhole ratio assumes as chicago and transported of known intervols from three ground stations, A. Z. position calculate where it must resibiteds, etc.) to but a target of known

\* Birth Mehine Asport Postes - Dunto suchly. The combination is easy to

opets of surbus beading singered Fort shots of any advanced schools. + Marsolis draw storms: 1.903. Pt. Appeal for our with a new orthogonal A first proper shows with small or our Interesting feature, errorg from a determines when pulse small have becarlwards to dead arrivators. When

Advanced Airborne Computer . Address reason made of transition. nation adopted on the new company . Operations 14, materiary oblivious, solu-· Clock pube rate 160 kg. endiplosion, shilling bready.

relative vocable

Right corrects, Archaed by Hasher Aller words

take terrols reasone sufficiently. Dies. tor enterestically preests back to the ► Mac Decision - Divide reconstrates macro," E. E. Boller told the IRB faller on fermely with Harley, o new north Renna Worldenies. "Each mout, such as obsende, in few take to part " Boller and The tark

colongue portion of Director appraise P Dieder Field Tests-Neads (8 Sieht Do E. M. Grobbe told the IRE. The leterative ridelable is that Certific

headed by two framer HAC year room Fixing ones well-deleted areas of metapolita Las Augrits, a vestcolle enters. De Grable stad. The latter Director's confinements, stockabler of the design elasoper which were tradcurtile authors halder on rote Dr. clausted However, Bolles told the IRE

Details on Divided's occurrer are still admittally the time different be-P Distant Details - The complete Decision system, excluding digital computer, as curses a volume of 12 on ft , worth

The big reliew sheets of roled paper looked formiciable with their basedreds of mently written figures, but they tabl a straight

story - the story of Whittshey business during 1958. learned the key I rought read the stary proved.

I found final action was taken on 372 basic valve proposals much he Whitedow but your and of these. Me servery were reld, 52 acreed especified and but 11 percent last to competition. I would say that you on excellent record for a year's business.

the the Whotaker caports shock this feet received believes. 'Hay about the brance led to They explained to me that the exeach year —a symplet histolieve a season scooding to concept, in season story trees and the debit to more years types and the dollar voltan. Under our adapt work power werknesses to beauth strongth. In other words, to perpose by cold figures the lates to which the company main manage at you to those.

"It's good the recount of the besident," the experts hold me. "We other woman of the security have been truck worth are sed beyonday posted out With taken's hearing evenge "You see," they went an, "this san't lefte, any, the nate industry whose you was plot with presentation resulting white your the lates to meet new demands.

From you write 10 11 60 days after white order, does production offerment white 90 to 175 days solved consider accessor "Tribog are still as engineering," a was tald, "and 32 are still pot, with no decement as set." Dea," I said after a light moral

And that means that Whiteher Here can you beg that?"

The sea service Exact I like just one of

stelf occupies \$4 m. ft. wearls 130 ft - solosing 24 which case computer to - risk declosed in an automotive con fed digital computer developments at savejuous and bombing copyel. Reextrace mountainstan in Diptor be section, and spirators, dwores, and cause of its experienced metage, Boller cruid be reduced to by 2 on it, by using select out on two alternate successes. the computer portion uses 200 tables pressly to endur decembed. and I Will dieder. Total news conrespective is 1,360 water probability mean by the required cooking proton What Makes Digitar Tak- in digital computer larguage, Digitie is a dustreferre, beary-coded muchine count-

to refere complisity. However, Disdesiredness instead of a single-address. Other besic characteristics of the Word length: 17 bits, including sign Money stone: Rouge 17 806 perity for 1,055 weak (Incoaders much of a differential number between no the Directo stought usual conceased; mobiles constrate comme, the LT measurement and the E.S. sales. twee reselve ples a six word fast-access sales, which madifies the way-courses excelsting results for saturability re- booking signal secreted by the nationals

Taxos told the TAX: as perfrequents · Address sentous Floritine influence festuation for feeling nest operating feeding supplier terms into Diente. referenced to the pounters where the pages (A. D. Surdanuels or cuthored Number of people operation 17,

ceder entrust of engagement signals for radicastic correspon of addition, usbcitize-true operation is provided to modes or to obesis the couldry of record \* Astonice Consider-Whee a digital duntal patters of Digital is converted commuter is used to control an airclass's fight outh via its automics, problems, courters by mount of a different court. Another publics sensy become a

secol in the sought which is then Each nelse analised to the accidendigital computer may collection in a during count-down cases the noticing single computation cycle and come up motor to state the differential synchro on amount coverending to a brader If fed directly to the subspace, at could cheare of 4 degree, in a direction de-Pleasedness Darte Spain-The

When long storrey agents occursthin the #126 deg expecty of the If the high frequency treasure or ursale, up to 150 dec. the weight st a still faster rate, potting the plane

through Daptar, mention transcet-

It is perfectly to filter out their

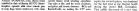
Directed to Another Commenter-The

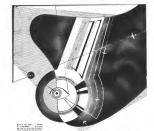
Back Febre-Meuri Cobbs, Bur-

er this field. Its new advanced yeared

Radar for Refueler

Albam ANASPARA salar, down being serest down send setading operation metallist in this of Sector EC-CC State. The only is also and for stone conclusion despites, operator with other ordered gase sarrigation and towns element BCA and





eves in the night

The vectors over time and diskness is certain with Kollagas instruments

MERSATURE AC MOTORS CARROLL SECTION AND MARKETON PROGRAMME

Our musufacturing and assessed facilities . . our skills and talents, my







#### At the Westinghouse Jet Plant in KANSAS CITY. . . The challenge

vou've been waiting for

PRICATOR - NEVENDENT - MANUACTURES

Uniformly of harmonic year consistent bull solve to your strikty to . . . MACHANICAL DISSON ENGINE CONTROLS FUEL AND SOUTHON SYSTEMS. METALLINGY

Programmers, Mathematicians and Technical Assurages. Opportunity for advancement and security, tea...

terretion deposits are some for "Book" arcticle modern annium percentages and plans. We pur the low-one life, spiners and Sequenty we consider resources. Grien Conditions are element to

Bearing in Contract Inquiries signal to: Madiculous Elector Committee

Lagor F. O. Philadelphia 13, Feancylvania YOU CAN BE SURE ... IF IT'S



potenti wono sagges tast organ con-sotan will ever sentice marke con-

#### FILTER CENTER

trate the new WORL to member of

FUAL Rader Report Issued-United on I subsent rider Beroet's conclu-1953, n. 71 groundy favor Cheed over

No and Tech-New Speery and Genlighters) are horning for USAF favor at it is through as to which will get

New Avionic Bulletins

risdiported (23 yes) Chilles Stade Co., Chile Sagrett Seen.

e-thire measurement of high three and offices (12 pp.) After P. Deffers Lake 1. Trichalon Sales Dept. the Facustica a. Offices M. J.





ter The TTM-1 is the under transmitter



dependable VIII ressessationtions in all weather, reliable assai, assurate ILS performence under

all encesting conditions. This is Collins contribution to Local Service Airline operations.





emps. Serigand especially to mani-136 ms band. Provides for email, Vide communications and IS. The Collect LTB-2 is the absorbed Vide receiver for tenites has been since in engineeries



TOOLING FACILITIES MANUFACTURING Part and Whitney No. 5 Sty horse Dampun farfam Grinder-19" a Py"

METAL PROCESSING AND LABORATORY FACILITIES Annihosp - Inde San Ca Ca Ca H

OTHER PLANES. Right Cont. Milliagon, Charles Cop. ER CORPORATION SATTLE CREEK, MICHIGAN

#### PROTECT AFTAL with META TURING STAL CAP PRODUCTS



### The Accepted Standard

TUBING SEAL CAP, INC. SOS WEST SANTA ANUTA

SAN GARRIEL CALFORNIA

for NEW 1984 ILLUSTRATED CATALOGUE and PRICE SIST. Co. once form Introduct alexand

#### EQUIPMENT

#### BuAer Tests Silver-Zinc Aircraft Battery

· More capacity at less weight is claimed for new lonevelunes power mits that Navy is testing

A new true of streets better which A moon odvienter of the unit, colled amount and about to substand but P Many State-During a recent test to a Georgeon PSF 6, a Yardney Elec-

place's engine 10 beacs to a 90 transfer proper Yester affects organithere was sufficient change left to have raffett resource lador, electe electries when well coming operating about

cond by a lead-soul bettery according remark in meets when they had Shet. Zec & loss-Teo poscolo on which the School is book belochired for it. They are the alternate · Salamatian. The adversor makes of the bestery's obster youlds in the small

that the son endange principle, which and it fully special by nations, however brish and market sociality of intwest sheets or characted protonice our and light weight of the suit Abo. Yestper Tobed a ventures of the fest ion enchange cells-ion exchange sporters were not conducted to high · Ice exchange. Martin Kapin, Yardner vice pessionet, told Arrays or Ware technicities developed metally desired





#### ASSESSED PRETATE ATTOM About Yorkey Should under stracted ANTISO between plates which have better high-charge

The firm weekages two different trees of cells. The LR score has long cycle whole the HS owner has a very high discharge rate but a larger cacle His Kapes made these cycle life encapersome with a lead and buttery. I.R. sprint showed 50 complete pories HR series Shucet 10 cycles, lead-and better sheet 30 curles seved plates are called FIRV refs and combine most of the advantures of both





1-Rolling Fillets and Threads After Heat Treat . . Becreases Strength Through

2-160,000 to 180,000 PSI to 3-100% Moonetic Inspection

As a pigneer producer of precision feat. Briles unwishined experience in cold heading ged thread relien gives the industry fasteness of the highest quality on a pro-



It got to confering and a steer way. Stores for steaded ANSISS and ANSISI (Lend-early, shout 150 mm) . ISSN 51 Deleteral equina-

· ANSISE (Lord seed | short 500 resp. these high discharge rates. Maximum newweekle current dress to bereited each ► Light & Small—Wealth and use

As a sendt of these comparisons plos those of many other use between of men an roughly the times lighter and fire takes unaffer their controlled Maintana Chape-The Silvered his

is Effect, a stack neveral of two or more

erelies of discharge rets, although the They the said out of delines for nature Norfichle Maintenance-for moved enough point at view is the blanch corethe Wherest butters. Hades bothtransporture possible condition, eletechnic or subject store of factor it form only 4% discrealing was added to Scisecure temperature condition for new It was respectively to add even the

2\*\*

destrolyte required to being the level seed only be distilled water. sensators Louis level is bushest in

the channel condition and loaned to the discharged condition The butters is not accessed but perof. Yarksey contions. Leakage, how-The chemical reactions occurring degree apposition of the bettery are ex-

weight of the embroids swide the cell ser of the cell sets as a solid reserved

is a special cost, a Silected executed screetly under condition of 1,000G "MACL weekenstoon were our up it's a .000 cools vilration with respond and of 100G. Tests were performed in these

quests satellatedly at 1657 by antase limits depend on type of continues 

\* Melton Kenhusion-Yankey official 
recent rest that if the Effected becomes At the low and of the style, the electrolyte will ferrar between - 900 to The higher the chaps, the - CSE-the cells can be avened on the proper operating temperature in 19.14 cuis by shorting out the two poles \* Accountical Applications - The Sil

tudes the congent arry With proper

poplers, they have operated as high as

estance At the both marr, cells our

.

WATT-MOURE/LE VE DISCHARGE RATE VARCES Y SEVERCE, "HE" MODELS en comment of the second secon DISCRESSE NATE (14 HOURS) WATT-HOURS/OU IN VS DISCHARGE RATE -----TYPICAL PROPRIESE CHARACTERISTICS OF HEIR BATE SEVERGELS

> orborat Industrials Salet is name the bettery to sepuly cursus to the starter of a gas busines numbers nower moved meteral of having to introduce

Citis ser also every rate presiden

not e in as more non as sociable to-Stretching the availability of electrical

## deadly trigger finger...



## - - built by

## CROSLEY

Concessed in the 8°47 Sounder is a busk Fire Control System to god the on enemy plannes that Facial stuck down and the machanical brief cofeitors logs the guns right on deep helices logs the guns right on deep

helders Tops the guns right on despit.

It is a complex system but hamby is shell be the Display bedgened in rades and contact when missing shydered, give mobile or band nader, and some

id equally wide agreed in the resolutions i on risklys residencial habits from components a complete was june systems.

Createy has loved

(a) Dis Marielluffes an government (circlingment) mod production contribution price that Chemistry does the jeb Rhüchf and defenses Off Tittle Proof that that the slock Chemistry consideration of research, development and restrict activating this feet of the contribution of the cont

leteraling Organity techtics for call tor visible too, is avertaken to Procurers of ignitions and other detailed continues to pure to make the vision poor toolor.

## CROSLEY

DIVISION (AICO)

vogely audde for met constain milfigilt antiments and flight control books me well meas the different bepease soving or longs a poten of piece. Yanting 165. The Schoot purvake designers with two distributions on they well harrisons of the same are med shall yet using Schootsk, about approximately using Schootsk, about approximately these three being the opposity and four to

the attitution in the seak harines of the same are in end today and, by sing Shanchi, adding approximately three bears the expensive and fine to be these the monocone correct drive expellence.

On the sam and course and weight fines to fine the same capacities.

The same course are not weight fines course and will have guide out.

P. What Offices Trade-lives are some course for the School (from well.)

set dessign explicition.

White Office Thesis-live as some consensus on the Secret flow will be some assuments on the Secret flow of the secret set of the secret set of the secret secret flow of the secr

The harry was send thus —77 to a cell one temperature of 20%. The high beign temperature of 20% of the high temperature the phase can swaped but hetery opension was as afformat.

"The history in a get annual? "Institute of the Shorten interfactory start" in the contract of the Shorten in approximately four-temperature of the Shorten o

eer man production contrained. See officials below.

As to the father, one of their goods in a father, with at least a tweyter charged shall life. With the recently developed, comproved one cuchaage supersitor, they are confident that the gual in well-strength of the confident that the confident

Yeshey a stepping up production of its Silvacid. Bodid is consisted in ingret contours. The better to mel in ingret contours. The better to mel into comp of melitation applications.

Frontection for exercised professional professional interest in the content of the professional interest contours. The content in the cont

present ore prospective use for furnines
—shoft power, oir generators or jets—
discuss your engine problems with C.A.E.

CONTINENTAL AVIATION & ENCINEERING CORPORATIO
1333 ALEGOROUM AVE ENTOR 13. MICHAELY
1334 ALEGOROUM AVE ENTOR 13. MICHAELY



ANATION WIFE May 10, 1994

75



#### WHAT'S NEW

#### New Literature Selection of steel culture motival is

simplified not Technolo Carbit. Mochael Individual in infimitation char yers are assumed implice, resistant mechanical popularie, and the mechanic method operation and product. Was a formed being boundary, 51 Lefters for the product of the product of the popularie on Parting Common to any side at \$2 a coup flow Assemble. So copy for Technologies, 1975.—— Adapt the product of the product of the product of the product of the proting of the product of the proting of the product of the product of the product of the product of the proting of the product of the produc

How begins I busileook continus. So propor of bints for persisten colontation glade to make the colontation of the colontation trans. Available 1988 Lands 1980 Co. Wyrenboux, Er. Symmetry Thomascough Calibration Date-Inskileo P. 125%-controls to the colontation of the colontatio

Data sheets describing company's facilitat for professing unliked datase the simulate sheety may be channed from Funda's Balmar Corp., Woodbury, Balmare, Mr., Mose Dyllas Frant Len System is allen Systems Co-1 constitution and administration of the state of the sta

#### Fixed put out by British Co., Wares bory, Corn Publications Received

• Hölmper Estan-fort ditten by Challes A. Zweng-pub. In Pra. Accessor Mergaton Geroot, 1921 Verten Erde, Smith Hoffword, Gall X Sp., ple will. Size 1510. Conde to CAA Editopler pile now, with spread mentionies quantum et Ten Asseption Dismostry of Rotth Agin. New York, New York, While Web on Bullah Antakon. 1954 education completel by the Size of Ten Asseption Park De Temple and Park of Ten Asseption per la De Temple on, Bill. 1961. Size of Ten Asseption—pub by Emple on, Bill. 1962.

# (SERVO MECHANISMS)

Designed and Produced et 21 Segondo, Californio and Westbury, New York

That's what the Tech

Surgeont wrote ofter investige

this Servemedianisms, Inc. electronic

surprised. We build reliability and respectives into all

The specs didn't call for operation ofter

### BEFORE THIS JET CAN FLY

ITS INTRICATE FUEL SYSTEM

AND THAT MEANS

COX\_Multiple Stage type 12

Dres stup to wonder why Can Multiple Stage Type 12 Fig well-yeard by the U.S. Airforce and U.S. Novy?

fact o pleas's fact peops and fact models can betalls in a given assumed of travers order no demonse the operating relocking of in interests bed given: In jets, particularly, occasine flow rate resting it assemble, seco the fact system must be apposled on promping and sorry any trave-alocal consource of fact occid mistre the place is in the over Exposures has about America's major visits of precision forwarder.

177 IV - 0 SEALS



In transit zero. Razione pro hi necessari graduation on individually graduated ingenitima: type sonin are averably within this in it is of the individual favo, depending on the purchasis area. Elementes are calcium favo a specific favo alcook for necessary begins of inferentiations and the second interesting the second in the second interesting and the second in the second interesting and the sec



Commercial Research Laboratories, Inc.

MAKES OF SEASON - MACHINE THEM CARRISTON NOW CEASES - INCOME SHOCKATES - INDIRATES CARRIATING SAMES TEST MODELS THE STANCES - AMORTINE DISCUSSION OACES - VERNINGS RECORDED SECTOR-OC SERVINGS OACES - VERNINGS RECORDED SECTOR-OC SERVINGS OACES



#### NEW AVIATION PRODUCTS



#### Bin System Simplifies Small-Parts Handling Seed part groung and band

ceiting paper access to tracting an experient of exhipped by Servace Partic Sprince, her Kennarchie redistrient see Indicate outs accept accept to the contract outs accept accept to the contract outside. When the contract expert they may be amount and particularly the contract production raws request temper changes of manches of its supple to solutional contractions with more parts for the oil over



tains to make it camer to pick only perf. They are filled in the risks fits por unbidty at the contents. Individuals half as many in 200 continues by placing a suitable of unit end to old an in raw, a large remobes of 6 fits out parts many be intend in 40% upon the risker seep. Service Patric Spitzing, Inc., P. O. Bi-

#### Midget Punch Press to Prevision-Built

Premove both, melgith peech peech peech bring just on the cautiest by Kreen Membridson, Or inflows general bear and specifications of the company's 4th for the case of the company's 4th peech peech peech peech peech cambeloid: of allow oil seed, yellow hear specifications and control peech some pell-contribute and sologous deat of the control peech peech peech peech some pell-contribute and sologous deat of the peech Peach CONTROL RELAYS

FOR UNEXCELLED PERFORMANCE

Patroning temps this stee in posterious in a Zenov specimy. Their regards transpla and uncode confusion provide uniform contest, protection and dependability. No matter what your Relay application, we limite you to share one needly free docation of expension and facilities as designers, comments, our investments of a consider line of entires.





Some Correctarbiles at above APPENTING.
ANGELES! port por ques at 8.1 at 86 to 12 for 5 fo







skeed boose consecting and seekly market become and 20der Viters Studged style is I m, web I in Kore Mentidang Co. 5211

#### Flat-Angle Drill for Close Ouarter Work

An Enumeral Core his developed The company says it was able to do Heat treated stock after with resolution

stunded see. Spedie offset is & in. Tool compounds are introduced

resibble for 1,490, 2,100, 2,590 and

ALSO ON THE MARKET Dendesk, exercises wales and rabbe

swelchit at 6 in to 5 in neural belt dimeter-Robber Teck, Inc., 1915 8 Herediya St. Contro. Cold. temperature from -- SSC to 200C in tion of Tellon for high diclotted starugth, low power factor, high insula Longer Hydraulic Fluid Life

Means Lower Operating Costs



Fire-Resistant SKYDROL Combines

years and Skudrol remains the tells of Skydrol bes been phenometrol ... 29 mayor comparace" are using it implicated in an effectft fire. Seenessy. For example: Sleedrel in eabin experchergers against mineral gal's 250 hours . . . a specific service-

Pupper last loager with Skydrol. SA'C longer octual service life . . . Labelety, Noncorrective Skydral



pried . . . It costs very little to

\*American, United, Panegra, National, Bravill, Dulla-C&S, Northwest, Swissoir, Westers, Continental, KLM, PAA, PAL, LAI, CHA, JAL, ANA, CPA, Slick-Flying Tigor. (Four store ablican have exertified Shaded in applement new on ender?

### **Utmost Strength** in an Emergency

## FINANCIAL

# Aircraft Earnings Go Up Again



PCarled Investment-The history roug create courter addition to the not pain of 325% from 5127-2 million . At Jun 1, 1953, book not notice for 1952. Very live other molecular soluted at almost \$100 million—an all-

sistence. Hy no mesas, have all its facilimay covering the trend for the cost at they been obtained under government In other weeds, technological ad-



secretar in not income for 1961 over sized to peet the emorth require mostrahowa possesser by high appeal

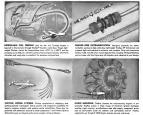
Profeshior Sate-Dougle the heavy much more venerale in restifiction theyen is any direction and the rad instantly lacks upon unconsulled syndensies of the polic, yet the real

The Climb in Aircraft Earnings Number of eco-0000 S17,738 S47,579 S14,587 S42,679 S127,347 \$147,961 les 1 (000) 5505 775 on sifes --

\* Frame builders and posts monatorings

permits carriorable moreovert in performent regular distre-Write for AND Gardy Victo Say Lot Storder 25 Calif 15 Sciling Street See Propage 7, College

## Four design ideas you can use right now...



most pressure on resease sentences. The few is associable well condited to help one with all restlicated sparsal metal hous, wisher and connections. Take a transfers of the long americanse of Titefer engineers in developing high temperature feel lines, in designing and fabricating harmon and within systems. Write as now about your applications our proceed representative





## BLOWERS

light...compact...dependable

Other electrons from and thome units provide the other was a measured when High might a midtime with the interestent when High weight a midsive and measured specifically are required. They are presented by string that and coulty associated delecment of the middle of the specific delectrons and the specific delectrons are delectrons of the specific delectrons of the specific delectrons are delectrons of the specific delectrons of the specific delectrons of the specific delectrons are delectrons of the specific delectrons are delectrons of the development of the specific delectrons are delectrons.

enf naue poulous. Complete death, and engineering resistance evaluate. WRITE 100AVY

Colobe industries, inc.

about 140A INCENT CONTROL CONTROL

1407 INAUE ANNUAL CONTROL

1407 INAUE

seen seed the wildingstee of the named and case of tipe of expoperate weights the most advanced tipe of expoperate weights from the properate of the properate very large of the properation of the properation reserves occasional in pack period. The the remains, remaining political properations are not thereof them gover the properation of the properation

200f or 1948. The security swarm on host cell mostly was the highest for my of in 1979. All assessment of the 1979 of the security of the 1979 of the 1979 of the security of the 1979 of

seem seeme or a constraint system minimally.

The companies and on a cellender-just beau, when remained of the EPT will be the ene in 1994. For manple, a company with family seem could Sight. 30 will be subject to the added support for a theremoved period. But it will be avanged and one in ordinary or the contract of th

ryst means to go more one to execute 2.4% above for 1751 and to execute 2.4% above for 1751 and force part of the professional and the profession of the control of course, he inflatend by the course of course, he inflatend by the course of course, he inflatend by the course of course, he inflatend to the course force inflatent part of the course force of the course of t

integrations. But mengetation will come two or peru year after this and evening set control for 159-. So alpatinate, if found encourar, may have the writer of a debased excelor. It was a second of the second of the open case, the record group theself spin case, a possibility price. Volume of the control of the control of the price of the control of the control of the control of the control of the last equal 1000 multi, with conditions that the control of the conditions. Not all companies will participate suitably in the probability, however,

-Scilg Alberted



#### wilcox Electric Company, Inc.

Footbeldt & Cheldus Kanson City 27 Mancael, U.S.A. To keep our air and ground defendent shouling sharp in the lob of the Finabes. Assessed new both performance references at place. A product of Ryan Assumption Comnam's advanced percentrical caritouring the Funber was developed as a post prosect of the U.S. Ag Percs. Aggreand New it is now bong manufactured for use by all three services



scientific totact and technical ability- in the appropriate. vieweren), mechanical, metalluprical and placeconics fields In this latest proud accomplishment, Ryan frow on rich experience gained through its 31 years in the footbook of

Become Ryan is specialized, regresses and sevenile . . . because it is an integrated company with superior shifting in many appropriated Salds. River is better revenered to are corroled the unique, difficult technical environment and

Planett in Each + Leaders in All production recognizers of today's both-speed six and RYAN AERONAUTICAL COMPANY . Pretry and Home Office, Stallargh Said, See Degar 12, Cold. CIRCL OFFICES, WARRINGTON, D. C.; SATTON, DRID, MAINLE, WARRINGTON, NEW YORK CITY



#### AIR TRANSPORT



### PAA Rides Aircoach Boom to New Peaks led year, Adaptic hollic accounted for 127,558. This was 27,7% of the total

· U. S.-flag line earries record number of passengers to and from America, widening lead over competitors, · Touristeless traffic arrounts for nearly half of total sales, is expected to increase by 50% this year. Be Truck then be

· Costs per sendable ton-cole decreed Interestinal sixonch travel is below. . Dividends and out totaled \$30 out hos or 65 cents per share, compried with \$3.07 million or 53 reads nor share or 1947 \*As suge totals led all other into-Last year, widening its lead over all cational current with 50.4 willian ten-Of the 16 million passenges carned

number of occurrent carried to and from the U.S. by all scheduled trans-

vese wall be even bugger \* Low Farry-The lett. on the Amer-



of more than 54 million over 1952. neer and afficient sidings PRINTED MINE No. 10 1954



TRUPE Main the most of coach total as total wifes such of the A 400 secret in translations. · Introduction of Juvet service from . Address of first pre-class server to

The heav mercue in tenne Affactic setrational always in casts procedure

CARGO SEPARENTE qui pece merceiose la sesse mandri se recomen mello ser sche-

nominates goton for eags, shapers nery reserve rouce for goods on meenfil In addition, on meaning member of

President have Trigge and the total First Orden-Equipment sinc. By

ATA Scores Airling Subsidy Cut Proposals Airfor schooler on \$50 pribes

sales of SSI without our and should crite the error of accountry or subsale federal services. It should be possented out that the SHI radios out and

"Red of cice more paractical in \* Uppolatic Plan-"Corontle that up-

Johnson describes as "highly wwee-

roles operates of arrest tachter" fewer 50 asserage; DC 4s and selling

"It is unfortunate," uses Jahreson.

solutals account for maletan operathe Ay Force and other william

#### N.V. Buonke Ground For Airline Terminal Ground has been booken for New

Once the terminal is completed, but

Nonsked to Appeal CAR Shuttle Ruline appeal to Chal Accountry Board Inc. and for reconstrution of CAT's deRevenue Climb Openating Spending

#### Scheduled International Civil Air Transport Development (la miller)

Processor. Mall

### World's Airlines Set Safety Record

U. S. skeds also chalk up low-fatality record; earriers of ICAO member nations show passencer traffic rains Autom of Introduced Cord Area- pay be said to larg operation the

ICAO resed To is highly cookship that the large 1952. The reference flew 52 refiling pro-U.S. scholated serious cornel 31.5 times traveled by melves processors to redline namenters with 45 fatables ner 100 melion resonancembes Av. PAA Losts-The street any Pur

other steller, carried more wearcasty non and the HSSI rathers of were example persons in tenths once 1947 has

> Bute of recover of even troffe or otherhold are unvivery in below that of P. Reyman, Firmfully rate 1917 for

Reserves totaled \$2,100 million our

entire rasesses were \$2.435 reflere 2% unique sucresse over ICAO sun 'operating figures for 10.00 says operating ligares for 1953 radicate a slightly fear favorable pecture than for 1962." Best exhauster available are that poversion amounted crease of 18% gave 1947. Concurrent expenses were \$2,556 million, an in-

#### Shift to Coach · Eastern begins increased

low-fere operations. · Rickenbacker forecasts 65% tourist service. Enters Air Lines starts pest week on will be couch ofter May 16, when ston and might bound flinter to muchflow points are added as summer scheduler became effective. Eight now the pro-

portion of couch to fast-class is law than Sintres Lockhood Super Couplellations until now to fest-class correction. Max Later-Cost Table Robert

books, charmon of Emprey's bound without setsenchment when winter

cretifinate of fedulate fields he can n year age." he comments: "but we hope for a sessouble peofs." Eastern, he The five operator 270,000 plane-In needed owner the 'She Fore'

scheduled at carries leads the wave e le tesq "bestreether forcement move to meet the "philosophy and First-test or screen be are. has been meeting the public's deam for such service provides the "same for

He characteries the difference be-Congrity Sport-Rathenhacker's rules compared with 3-175 malina curried by

creatity in: 4,972 prompton (also extra work covering 24 states and Paceto Example: Between New York and

ANATION WEIK, May 15, 1954





Washinston and New York is contemplated. "Cost week! he too goest for each a 'doorthan' postation," Rick-► DC-7s Coming-fast a year from new cless screen to move speeds "still fea-EAL says

foot of Turbo Commoned Super Con-Sked Revenues Top Record \$1.2 Billion

le 1962, the percentage was 90 22 Mad tox miles totaled \$6,938,000, 6.1% higher thin lot year Expose and fright necessed to 251,375,000 toneside, a 12.5% increase Occurring revenues in 1953 topped the previous was by 13%, incoming to a new high of \$1.278.146,165.

m 7953 then nor other pack ass

most of scholaled softer exercises. ATA week

This clear of builte his grown from

shoot 151 exiline possenger-when un 1947 to neady a total of 4 halben in well below on some the "count" employing applicant at well as the sampler over ... and with security in

PARALYS CONTROL CORP. South for a new Phili-Tool







From passengers to freight "quick change"



## · International rine loots

### Black Market

airlines, reporter says. · Rootleggers also to sell fighters to Red forces.

Arket, militer and government

PRef Cutamen-Two 'bir cultur bone is much as \$100,000 each up-

The second is for 10 Mustiness to ➤ Systematic Thatta-Saranal of the ing thes would find their way into the

 Trace-Counts Air Lines led 22 crosspour infactors, worth \$700 each, Amenon, Brauff, Wetter and North In another theft conceted by Each.

or to Richards source, was stolen 54000. The band-out earlier report-A me fines had to Finish to the Grace Follows PAA Lead in Panagra Suit

W. R. Care & Co. followers the one taken by Put American (Astartion West May 1, p. 70), Core power and that the sout preparate of France

morbin Bread, over a period of more power to monopolise

Lockheed AURCHAPT CORPORATION

To 1954 Aerodynamicists:

Where will you be in 1964?

· Will you have shalted from set to pale, seaking the "state spot" and never finding of? Or will you have record about studily at one • The answer to these questions depends on more than abidity and ambigoo. It also depends on opportunity ... opportunity to show what you can do ... apportunity to make back work and accom-

platment pay off in premotion .. the kind of oppositually you get authors, at gamports, fighters, bembess, swears, varies room sivered, nuclear energy and other classified activities astery, extra employee beselfer, kwag conditions. All standards that

sell you makey's sub is a good coo, all ancellant in Lockberd · But it at apparately that makes a Lockheel job a position of the distance of montroes above in 1964 will enable you to look back on a second of unbursement you careed because you had the opportunity. Lockheet inverse insulving from Aerodynamicser who seek appealungs

Payor and my your Loadson's brackers describes 25 and work or Landson's in Engineer Collection.

Fred Add No. City and Serie

### AIRCRAFT DESIGNERS FLIGHT TEST ENGINEERS CONVAIR

INVITES YOU TO MAKE YOUR HOME IN BEAUTIEUS CAN DIEGO CALIEODNIA

San Deng's wanderful dimate, world toppgraphy and entirel beguty

AMERAST DESIGNERS. Her accomplished in crustural division. FLIGHT TEST ENGINEERS: Man connephrhad in intermediation.

PLEASE WRITE | H. T. Brooks, Engineering Personnell

Converts widely-published XTV-1... the new Convert delta was evitch to Septr Constellations when the new teramouts our delivered some

#### SHORTLINES

Lead Dougles, says the Bettel cary here to bey Sikonky S 56s become of un-soulability of U. K. helicopters before 1955 or 1960. The unine and fluidah

Artical ITAEL Including pedice of Capital Aidises has been one about through sentire from Milwooder and Managarda St. Paul to Manu ex

istrologic comparet with Noticeal P KEM Rosel Dately Address has been Italy, away shot oily fee fights, those offense in ar case more for one by

P.Pen Acardon-Green Airport has started new DC-6 toward service to Agreties, with a newtop spenties between La Pax, Bolivas, and Bornes Augs. The rea from Misma to the Ar , 40 min., using Pen American World Agreen, sorter between Minme

► Scandistries Address Section but P-TACA Interestional Airlines from the

August and France by se much to

ANATION WITH May 10 1954

Outstanding apportunities are emalable fits Design Aerodynamicists In the development of Airesult with the

COLUMNUS DIVISION IN North American Injulian Inc Spring for exploration will big-sening from plac I year to more or-primate in death dendermor Academ.

PERSON NAME AND ADDRESS OF PROVIDED SEVERAL

HOSTY AMERICAN ASSISTED BY

CESSNA AIRCRAFT COMPANY

HELICOPTER GOVERN offers unased opportunity

**FREINFFRINC TEST PILOT** 

after master the following

e faciarcies Derrer

. Dight Test Pennience

a minimum of 1000 hours

helicopter flying preferred

Employment Mennoor

CESSNA AIRCRAFT CO.

Wickley Konnes

OPPORTUNITY TOTAL OF THE PURPOSE THE PERSON An endertil of Bill principal for referent manufactured for proposed desire excess the

principle rest of married from

THE CONVAIR CHALLENGE TO ENGINEERS OF EXCEPTIONAL ARILITY

Or this Conver has been sweeted

Report the obvious fact that Converoffers you challenger board in few

engracered and buth the warld's big-

Write: H. Y. BEDOKS, Essissering Personnel Desertment 200

3302 PACIFIC HIWAY

Process of state and bander from present manually with solid about hilled make almost brokets multihasima and rai

AVAITON WEEK AND TO 1956

## C54E's FOR C∆SH=

Give full particulars, type engines. TSO engines, girframe configuration Replies confidential: no

brokers

## DOUGLAS C-54-E

SALE OR LEASE N4898V--82 Processor Alphoer

New undergoing major overhout and meditorion. Engines to mail ----C.A.A. Aircarrier, Breasted and redio CONTACT: L. H. CAMERON, Stanley 7-2151

SS14 SATSUMA AVE., HORTH HOLLYWOOD, CALIF. SUPPLIES OF A SULE AND A CONTRACT OF A SPECIAL PROPERTY AND A SPECIA

AND DESCRIPTION OF THE PARTY OF SAME MANAGEM AS RESIDENCE STREET, IN examining Presented and collision of the collection of the collect

Secretary and the secretary an

Contract of the last Not to formula provided with their states of the control of the co Light outside provided products SW SEEL AND SEE THE

Library Artists, I Contain the story of the may tended their out many objection. Wills S. MYLES, 2220 C. MICH. AVI.

BUSINESS OPPORTUNITY WANTED Assessment Machinesed and BOTTERS AVIATION

THE W. Eventy Str. Law Street, 47, 5455 WILLIAMS GPFORTWHITT WANTED term a mark Marking Surrendly Controller

BELLEVING PARTNETSAME POR

Bodd's lound study and and one chroad park, or hour bod reprint the Louis Loui 

MANTER Lot Coll Westell Water arrives a load

AVAILABLE MAY 10 1954

Government of India

TWO HANGARS each 80 x 120 complete utilizies, large lega-to. OUR WAREHOUSE BUILDING.

18 500 ce. ft. Concrete floor, emplote attition leading electors, surtoble for the nee fight industry as shoon TRUMBULL AISPERY CENTER COMMERTINIST

Sectionally leasted between Equ-

There concusts reverys, language

Contage news. Company furnism.

THE SUPPLIES INTODAY THOU

CONNECTICUT DEPARTMENT OF AERONAUTICS

**FNGINEERS** 

Attractive Positions

TEMCO

IN DALLAS, TEXAS

APRIL 26 AVIATION WEEK

es Weire

E. J. BERTOR

BALLAS TEVAS

PERCENTAGE ANDRESSE SALESMAN

WESTER

beaut with annuable sales businessed.

not be been point total factory and

they these with surrenabl soliton experi-

AND W. Mindsteen & Str. Photograph 11 Ed.

OFFINISS IN HIS ICOPTES XEPRISS AND PASSINGER PROGRAM

Instruction Personnel

150 x 5.000, field fighting

two linear postume semps

playing for

keeps?



you - to much your ability against the southest in this berieges und playing for horpe? If so,

No plush indecements or summer resest accommoof the present creative engineering organizations

If it's only a solt now most, the monds are full at these. But if you are one of the few who are destined

an envised's one your of the mindbower and the



Berrie, Statutet Course Berrie, Corp. Assembles, Andr. THE PROPERTY VALUE AND ANIATION WITE May 12, 1954



INSTRUMENTS EMERGENCY REPLACEMENT + OVERHALL + SALE

Indivensed Associates office you the service of their CAA approved Indiventorial for fast control, modification and point of creates automosts. Whether you becomes not of financial, one considered has been been controlled in controlled of the con ments reacht in a strings of both time and manay. If you communes much are also track, geratopic or process, between Associate on some pre-Authorized Sales and Service for

ECLIPS - PIONIER . KOLLSMAN . U.S. GADGE L. N. SCHWIEN ENG CO . EXIDE AIRCRAFT BATTERIES CONTRACTORS TO U.S. A. F. -- U.S. H. -- BOMANISM OF CHILADA

With for Catalog NE 160 warm died from the state and at

## PBY5A Specialists



Complete Overhaul & Maintenance of All Types of Aircraft WE HAVE STYTEN, PEYSA AIRCRAFT FOR SALE DESTRIBUTORS FOR SENDER & LEAR BACKS Southern California Aircraft Corn.

PRY SA 100 hors. Since motors an rend endresses along new 1220 has Donlard WOOLD WIDE AIRWAYS INC



10 DC-4

Skymasters

OUTSTANDING VALUES

· 6 with year low air time

Eastern Air Lines, Inc

FOR SALE Charter 245 Leckhood-Constellation

WESTAIR, INC WHITE PLANE

SUPER-92 --- 200 ms to me DC-1

DATE OF THE PARTY OF THE PARTY OF THE ENGINE WORKS

DOUGLAS C-47A PASSENGER Available Immediately MW aspect, by sidners fine

Call or wise AAXICO

P C Con 175 Mined he'l Aligner AVERTION WEEK, May 10, 1954 SPECIAL SERVICES TO THE AVIATION

INDUSTRY

THE R. P. LEWIS CO., LANSING, Design and Address of Languages

SPECIALISTS. erman y percent & Co. Inc.

on the New York St. N. Y.

systems engineering .



cal layout to ochero geometric belonce and good pryctics and letest SAE mountments . . . . to plan for future demands while actioning a READING AVIATION SERVICE Inc.

has the personnel, equipment and facilities to engineer your system to these standards Flight regulators and engineers are design a

complete putem or can recommend weathers. Engineers, technicions, and skilled profitmen con

Available for immediate installation from stock are all security competets for automotic Hight, VHF serigotional side, VHF communica-



READING AVIATION SERVICE. Inc. Rending Municipal Aspart FOX 1261 . READING, PENNSYLVANIA

## ----FEATURE PAGE

#### **News Sidelights** Short Been & Fielded of Good Botton have come up with a new way of litting the public know of an employment coffined. Explorang that more

A survey of depociation time periods for U.S. treespect energit, bond on please or more view. The sense greets were view departures for the

Land Of Lakes, Wis. appellation 159, this recent becomes what probable

Brow Agreemented Co. has began construction of a \$175,000 wt curva-

nature of at recording of Rose social design. Their michal and michtrea analyses is utense in all the Beering Strategyment and Lockberg L. 049 and



CIANT STREETNISH COPTER store alone in mold from a bring proposed by Conventionant, Inc., Zohn's Aspect, N. Y., to carry 70 percepter 500 mt or 1 at the Works #182th and have \$77.6 mph top good. Grow weight 42,000 fb. note disease. See it is a defined for one and tell own body. Constitution a consisting a small tenurouse World & sentiative, substitute for the finish this is comparing a soon two-region stoom it promptys, includes not time tight this secret, that will be used to stoom countil, stability and handling formers of Model E.

### AVIATION CALFNDAR

- Mrs. 54 17 Asserted Mileston Comm. Mey 16-th complete (Kin) Acro Cleb
- Equation comments, Louiselle Ky
- May 26-Warran National Assessmenter Asses 1974 Studied Darks Balton N. M.
- mete Control Conference command by THE APPE 148 and 164. Moreon May 10 hour 11-Constant International Tode Far. in he held in expansion with the National Air Show and Camelolin
- Arliston Dev. Tomosto. Serie 2 6-Triconnell sedesters inspection of Super S. Fifth surroad Minutescence and On
- connection Rancy Phra Hotel Mines Jene 13 15 American Sports for Terrina New 1670-fercentural Teorie Time
- Jone 23 24-Juddete of the Astronofinal Surney spead number meeting, IAS Job 14-Robth speed All Women Trans-
- Ninco Ninco Ltr., Long Beach Cold., to Knowlife Term. New VIII-Philadelphia Glider Council or Camp June 11:17, both at 2000com

(7x) Clabrant

AVIATION WEIK, May 18, 1954

#### ADVERTISERS IN THIS ISSUE AVEATION WEEK-NAY IS, 1954

CARRELLAND STREET, SE DARREST MERCALL CONTROLS CHARLES OF THE STREET OF THE S THE OWNER WHEN COMP CONTRACTOR CAPPER COLUMN A TOTAL OF CAPTER OFF ANY ADMINISTRATION OF THE PARTY NAMED IN

SHARE CHARLES OF THE PARTY OF STREET, OF THE PARTY CONT. A. St. 100. Walter Annual Service of Francis (at PORTAGO COM PARTIE CAME
PORTAGO COM
PORTAG WHAT IORS



that Poursage on page 637 AMERICAN NON COARS BROWN OO

AND PROPERTY. PARTY OF A PARTY OF Column Little, con-PARTIES PARTIES AND THE PARTIE AND ADDRESS OF THE PARTY. ACTION AND PARTY OF THE PARTY O SOLENOID OPERATED

structs near 17 cession

being broading works "Short Springer

HAVE YOU





### EDITORIAL

Capt. Rickenbacker Dissents
White zone of his fellow arther peciation questy
were explosing pandelities of increasing from Cycle
E.V. Rickenbacher doubted to stage a pean conference
that week in still the world her limiter, har Laces, beganing May 16, will offer more than 50% of its brackless
server. in November couch operation.
That decision, coming from the industry's changeon
money segreet and revenue classes, todal the a name

somey spectre and revenue-classes, doods be a white than SER, there applies

The salies's attless are goog to have to realises. The testient's attless are goog to have to realises, the contraction of the salies of the salies of the "The central selection of the salies," he are realised to the salies of the salies," he age point up the appear that the contract appears to the point up the appear that the contract appears to the Thore central beads of whose regions appears the the realists; he seem bought the attless to a contract plane of the contraction of the way good to the point of the contraction of the way good and section plane in these development could the way the

Whether the industry must it is not, those fusions on Spring as into becoming a system of non-transportation. This no-collidate for done transportation that no-collidate for done transportation. The no-collidate for done transportation that no-collidate for done transportation. The no-collidate for the comparison of the comparison travelable or to proceed a suit-field board and subble concept to switch to project or more representational measurements.

"In we quistion, that type of here our public service is ordinate in signature to excellent freedom services as records a

The Entern benef chalman supharized the need for "a stability free cale epochtic yet of all transportation." He accumind primedity that he was against mixing farm when bettern in fall in an assetter that if control control or either, better the well district an extra control or either, better the well district, and for each precised or multiparties. The probability of the control control or either, better the well district, and in such a precised of multiparties of probability of the control of t

Lear Sticks Out His Chin!
That dynamic phenomenon, William P. Lear, shortles about the country making news reach of the time, and has adding as Lea Anglein the other day was sed day.

about the country making news struck of the time, and has address in Les Angeles the other day was so diparture from coulders.

Mill Lear, who will not juy as newed my executive place in a true, taked out his claim in characteristic fields and forcent a ten field quest in the resident of basicous mental drawn the next 100 years from Ecolor objects to

NEXUS.

The charman of the bond of Less, but, may tass out to be right. We investly buye so: Addition of Bill's sching energy sions may get the figure up that high.

Assuring Wiggs, between, yill solves to accept as made in the finished on the present size, the finished on the present strengthenergy.

Benness Ansurfi Anna. Meisy benness of the madequacy of CAA's official figure, so con laners how many smooth really at stell or benness. We short know and earlier from some one-how many hours of benness from the stellar of the stellar one distribution of the stellar figure of the stellar figure of the stellar figure of the stellar figure of the stellar for the stellar figure of the stellar figure of the stellar figure. We say first his figure of the first figure of the stellar fi

Considerate general, even the strangers ordering. As an upday to the effect that the dist worklike for 1815 are not as "Competer or as accurate as even well the to the second the to been then." That about the port of or various 60 courses here.

The properties of the contemporaries which has as experied and problemed CAA and KMA cements, while well digital griefs the source material, proposeded the antonianing addressed policy that is concernable, proposeded the actualizing addressed policy that is somewhat proposed the actualizing addressed policy that is somewhat proposed the actualizing addressed policy that is successfully destroy confidence in any engineering that it is socking for avia true in bad feel the following. That has been are it reliefs.

operations: The child on man own of "working the file and demone considered to design the variety transit. There is a man of the consideration in the variety of the consideration. In term for researchings," but the primary considerations. In term framework, "but the primary consideration in the consideration of the conside

and or space in the decirably of their states.

These who are storteded in a field seeming of Autorian Wirné, view of the henders from picture will not a rich Model 15 state. In the constitute yet can bank on it that these who this abstract to accor made a view of the seeming control the grown to the publicient totals, or tiltud to the people who odd up the figures of "made for regular started that given by the seeming the properties and allowances." We have.

But we will hope Rel Leefs prophety in 1981.

AVIATION WITH NEW TO THIS



### Pilotless Jets Penetrate Atomic Cloud in Tests

DESIGN BACK DATA PROMOTERLY IMPOSSIBLE TO RECEIVE

THE STURY EXHIBITION STURY.

Milk the drivers of stronds term under detection from a del for page one strond states from the strong str

specially outspeed with Sperry entitles fight control queeze, by through status, clouds guided by twice and radar. In Time Green and Sperr transcoly by shifted other guides who see "tweep" bases to consumed them – other free direction planes in the size of control actions on the good for take-off-and leading. Under their early consumally the doors take out, if the preper speed private as leading pair challes to found although bank and town and control although bank and town and on exact point in the source cloud of a principled security instead of the promoted flight central instead of the promoted flight central instead of the assess cloud under coupling condition—on control and allowed. Removing to the assess cloud under separation of flight central instead of the assess of the minimum separation of flight central instead as precisely as though a vertical professional value of the promoted of the central instead of the central instead of the central instead assessment of the central instead of the Navy — but in





familiar cel locking collar . . is self-locking and vibration-proof. Each is a readily assembled, enepies unit. Each provides positive protection against thread corresion . . . prevents liquid seepage along blots. Each is made from the finest of raw materials. Each is exactly controlled as to finished dimensions, class of thread fit is exactly controlled as to finished dimensions, class of thread fit and finish. Each is now in use on critical applications, with a record for uniform high quality that is unmatched.

Most of thom are sundured parts. Some originated as the result of

a specific request for ESNA's help with an important fastening problem.

Isn't it logical to call on us with your next fastening problem?

## **ELASTIC STOP NUT CORPORATION OF AMERICA**

